UltraView CCS 4.5 User Manual

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Preface

This is the user manual for the UltraView Central Configuration Server (UltraView CCS). This document includes an overview and detailed instructions explaining how to use the UltraView CCS. There is also information describing how to contact technical support if you have questions or concerns.

To use this document effectively, you should have the following minimum qualifications:

- Basic knowledge of CCTV systems and components.
- General understanding of networked video surveillance system.

Read these instructions and all ancillary documentation entirely before installing or operating this product. The most current versions of this and related documentation may be found on our website.

UltraView Central Configuration Server

The UltraView CCS is a web application tool that lets the user define and configure software parameters for any supported video and audio equipment (see “Hardware compatibility list” on page 175). This can be done from a single location on the network, enabling remote configuration from one central control room.

This central configuration tool makes it possible to:

- Setup video equipment by configuring ports, FPS, compression, video input/output, network parameters, PTZ cameras, etc.
- Configure video storage policies.
- Setup alarms, display sequences, text in picture parameters (OSD), etc.
- Configure IP audio devices.

The configuration is stored in a central database, but each video device has a local copy that allows it to work without the Central Configuration Server.

Installing UltraView CCS

Installing UltraView CCS is simple, but before installing CCS, make sure that the following software is installed:

- Apache version: “apache_2.2.22-win32-x86-openssl-0.9.8m.msi” for Microsoft Windows 2000/XP/7
- Firebird version: “Firebird-2.5.2.25640_0_Win32.exe”
- NTP version: Ntp_4.2.0a.2.msi

To install Apache, Firebird, NTP, and Central Configuration Server, follow these steps:

1. Apache and Firebird software must be installed on the “C” drive or the default system drive.

   Note: Always install Apache first and then Firebird.

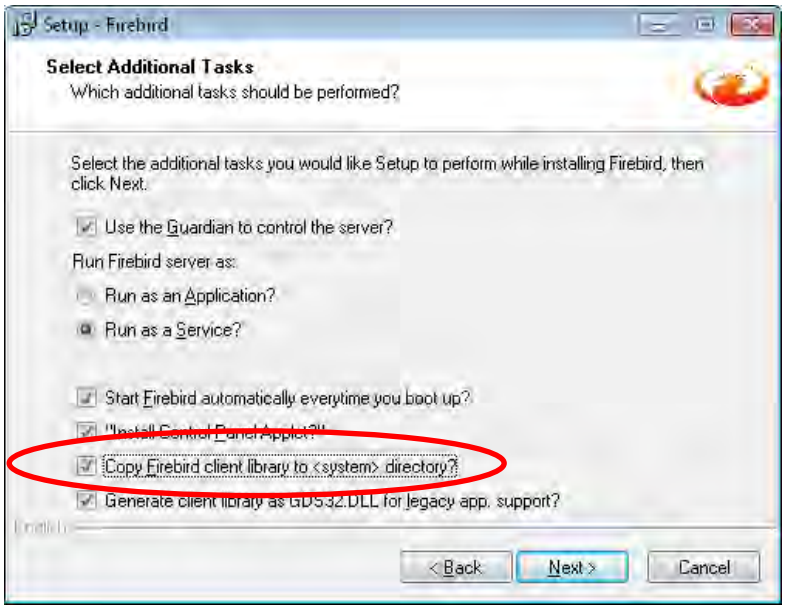
2. Go to http://archive.apache.org/dist/httpd/binaries/win32, download and execute httpd-2.2.22-win32-x86-openssl-0.9.8t.msi and follow the on-screen installation instructions to install Apache.
3. Go to http://www.firebirdsql.org/en/firebird-2-5-2-upd1, download and execute Firebird-2.5.2.25640_0_Win32.exe and follow the on-screen installation instructions to install Firebird.

   Note: You must check the “Copy Firebird client library to <system> directory” box, as shown in Figure 1 on page 9.

4. Find and execute the Ntp_4.2.0a.2.msi, and follow the on-screen installation instructions to install NTP. See section “Configuring the NTP service” on page 9 to configure NTP.

5. Set the Firebird Server Windows service startup type from Manual to Automatic, see section “Setting the Firebird Server” on page 10.
6. Find and execute UltraView Central Configuration Server Version 4.5.0 Changelist <build>.exe and follow the on-screen installation instructions to install CCS.

Figure 1: Compulsory selection during Firebird server installation wizard


Setup - Firebird
Select Additional Tasks
Which additional tasks should be performed?
Select the additional tasks you would like Setup to perform while installing Firebird, then click Next.
Use the Guardian to control the server?
Run Firebird server as:
Run as an Application?
Run as a Service?
Start Firebird automatically everytime you boot up?
Copy Firebird client library to <system> directory?
Generate client library as GDS32.DLL for legacy app. support?
< Back
Next >
Cancel

Configuring the NTP service

As Server (Central Configuration Server):

1. Go to Start->Program Files->->NTP->edit ntpconf (or edit the file *c:\winnt\system32\drivers\etc\ntp.conf* manually).
2. Replace the file contents by following text:

```
#
# NTP configuration file (ntp.conf)
#

#
# Sample configuration for stand-alone time server
#

server 127.127.1.0
fudge 127.127.1.0 stratum 4
#driftfile C:\logs\ntp.drift         # path for drift file

#
# Miscellaneous stuff
#

authenticate no
```

This will configure NTP so that it uses this computer‟s local clock as timeserver. For more complex configurations, check the NTP documentation at: www.ntp.org

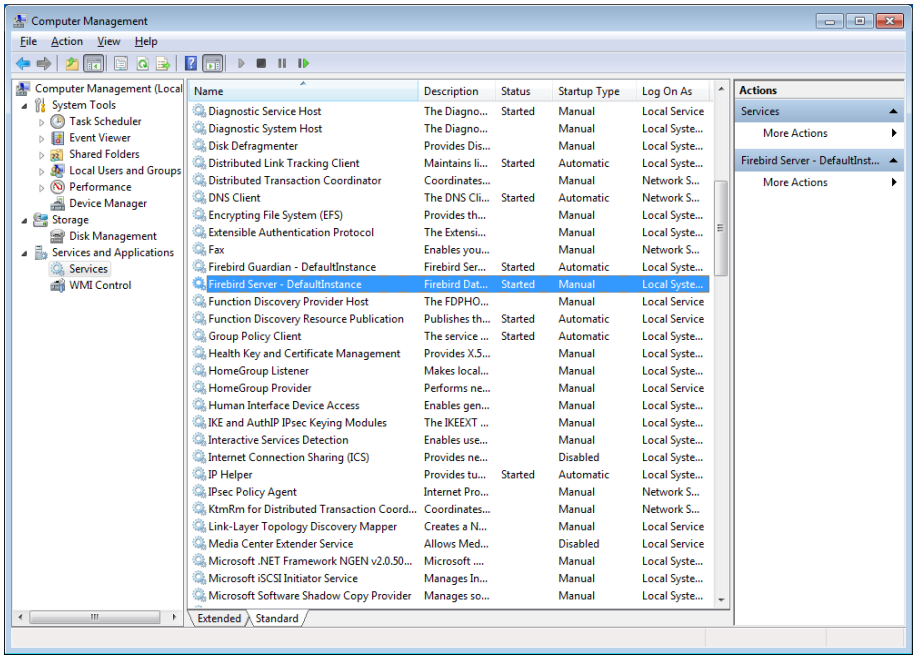
Restart the NTP windows service for changes to take effect.

Setting the Firebird Server

To set a Firebird server, follow these steps:

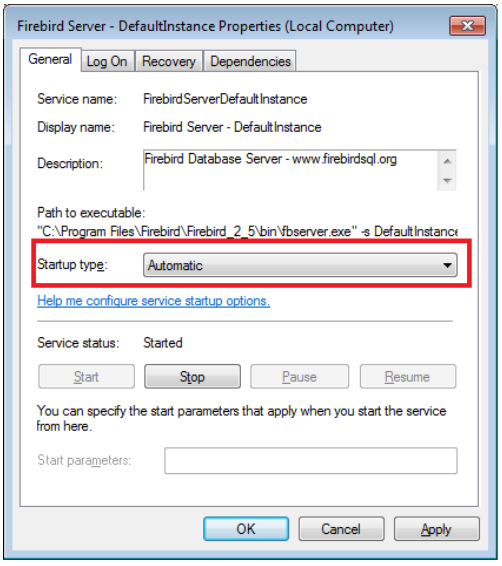
1. Right click the Computer icon (on the desktop or the start menu) and select Manage. The Computer Management window will open.

Figure 2: The Computer Management window



2. Select Services in the left pane. If you are unable to see Services, click Services and Applications to expand it.
3. Click Firebird Server in the right pane as shown in Figure 2 above.
4. Right click Firebird Server and select Properties. The Firebird Server Properties window will open.
5. In the General tab, select Automatic in the Startup type field and click Apply.

Figure 3: The Firebird server properties



Uninstalling Central Configuration Server

To uninstall Central Configuration Server, follow these steps:

1. In the control panel, click Programs/Uninstall a program option.
2. Select UltraView Central Configuration Server and click Uninstall.

Upgrading UltraView CCS

To upgrade the UltraView CCS, follow these steps:

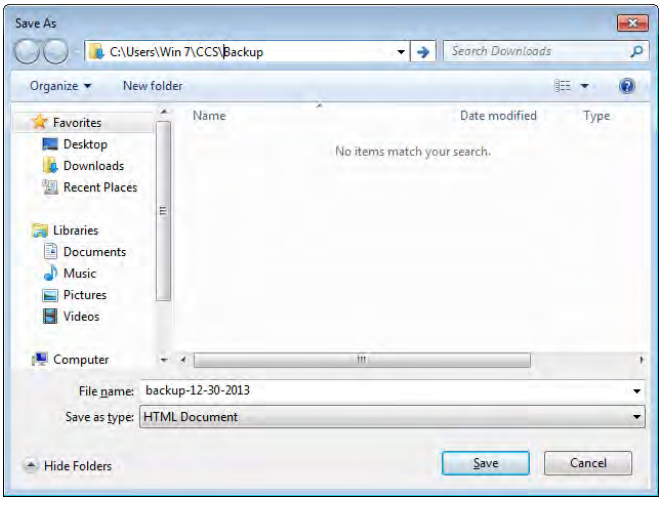
1. Backup the database by clicking Backup Database from the administrative bar at the bottom.

Figure 4: Backup the database option

ultraView
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
Backup Database - Restore From File - Pending Change List - Settings
© 2014 UTC Fire & Security. All rights reserved.

2. Save the file using Save as type HTML Document, see Figure 5 below.

Figure 5: Backup of database with the save option



3. Uninstall the UltraView CCS as described in the “Uninstalling Central Configuration Server” on page 11.
4. Install the UltraView CCS, as described in the section “Installing UltraView CCS” on page 8.
5. Restore the already created backed up file using the option Restore from file from the administrative bar located at the bottom of the page, as shown in the figure below.

Figure 6: Restore the database from a file

English or French language

The UltraView CCS comes in English and French versions. The one displayed depends on the language preference settings of the Internet browser.

To modify language (in Microsoft Internet Explorer version 6 or higher), follow these steps:

1. In the Internet Explorer Tool menu select Internet Options.
2. Click the Languages button and select the preferred language, English or French, at the top of the list in the Languages page.
3. When done, the Internet browser must be re-opened to display the selected language.

How to open UltraView CCS

Note: Only use Internet Explorer 6.0 or higher with UltraView CCS 4.5. Firefox and Chrome will display CCS 4.5, but some functionality may be missing.

1. Open the Internet Explorer web browser.

2. Enter in the address input field the name, as defined in Windows, of the server where the UltraView CCS application is installed.
   - Example: http://server_A

   Caution: Make sure that each device knows the IP address for this name. The machine uses this as a query to locate the IP address of the UltraView CCS server.

   - Example: http://10.1.3.10

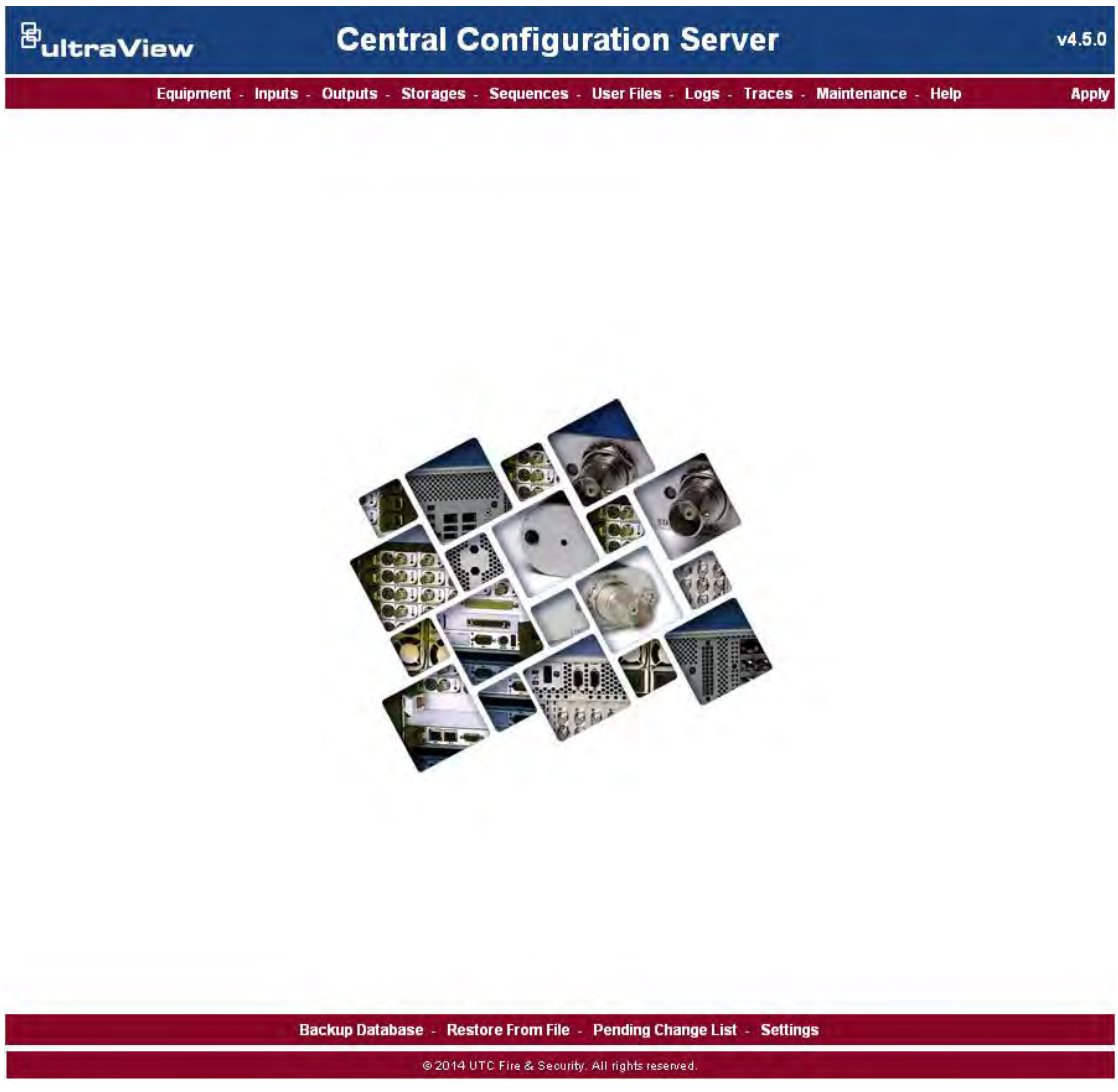
   Caution: Never use the address “http://localhost” or “http:// 127.0.0.1” even if the browser is running on the UltraView CCS.

3. The UltraView CCS home page will then open automatically.

UltraView CCS introduction

This section describes the main CCS menu options and configuration pages.

Figure 7: UltraView CCS home page


ultraView
Central Configuration Server
v4.5.0
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
Backup Database - Restore From File - Pending Change List - Settings
© 2014 UTC Fire & Security. All rights reserved.

From the home page, the user can select any configuration page using the upper red bar menu options. The upper red bar menu is present on all pages throughout the application. It contains links that allow the user to easily jump from one configuration page to another. To return to the home page from anywhere in the application, click the UltraView logo in the upper left corner.

Figure 8: UltraView logo

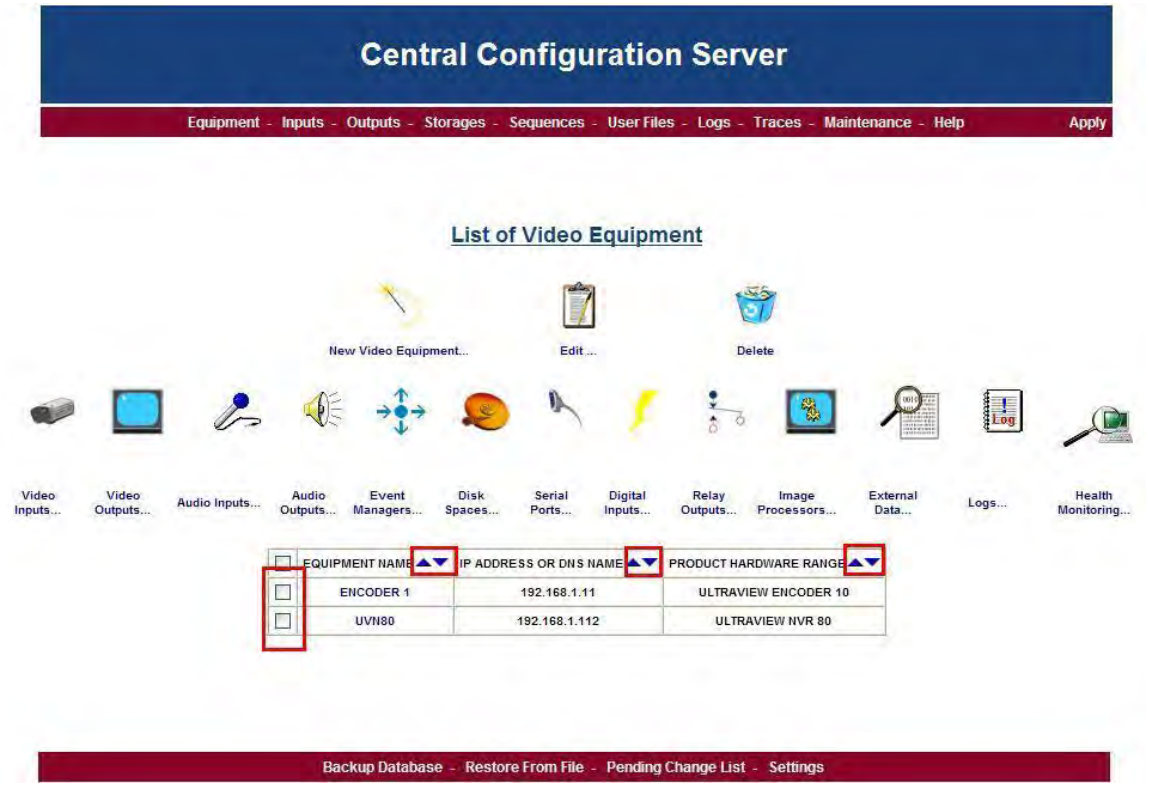
ultraView
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply

Configuration changes are stored in the local database. To transfer the changes to the equipment the user must always click Apply in the upper bar menu. The impacted server services will be automatically restarted.

Update progress icon indicates that the changes to database are applied.

All pages contain a set of icons representing the available functions, see Figure 9 below. The lower part contains a table, listing all the video equipment currently available for the configuration.

Figure 9: Main icons and the list of available equipment



The blue arrows next to the column headings allow the user to select the sort order of the list. For example, clicking the left, upward arrow in the IP Address or DNS Name column means that the UltraView video equipment will be displayed according to the IP addresses in ascending order.

The list items are selected by means of check boxes at the left side of the table. The upper check box, to the left side of the column titles, allows the user to select all list items.

To delete any displayed video equipment, select them by checking the box next to them in the list and click the Delete icon.

Version and Changelist

In the right top corner of any CCS page you can find the CCS version number.

By floating the cursor over the CCS version number, a hint popup with the current CCS changelist number is displayed. See figure below.

Figure 10: UltraView CCS version and changelist

Menu bar and Administrative bar

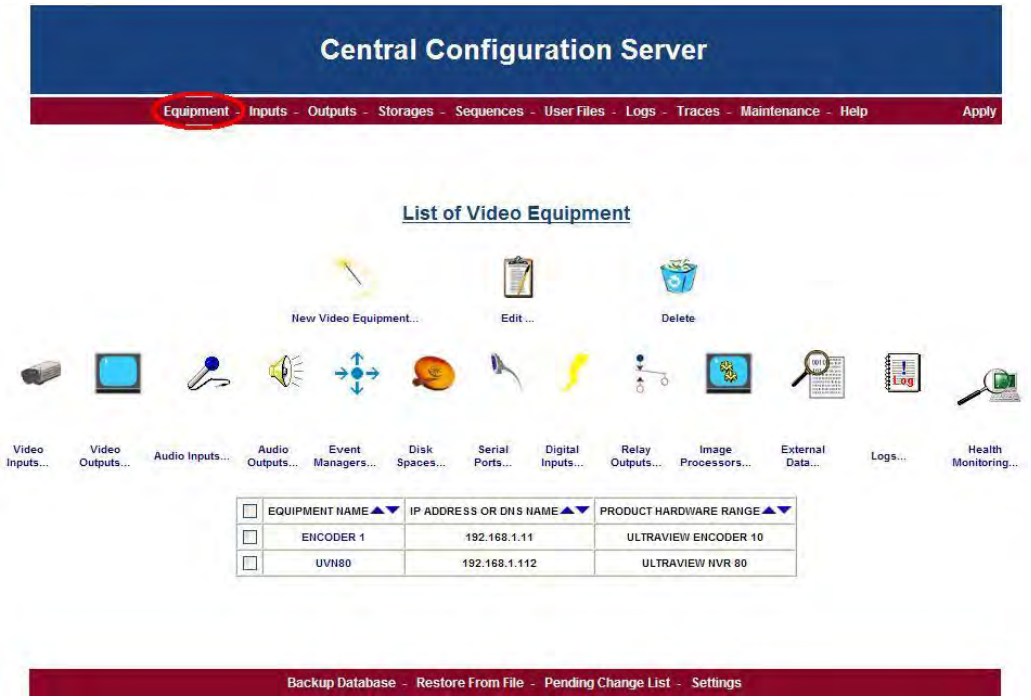
The menu bar is located on top of every page. It helps you to transfer directly to the page you need by clicking the relevant item. The administrative bar is located at the bottom of every page, see “The administrative bar” on page 23.

Figure 11: UltraView CCS menu bar

Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply

Video equipment

Figure 12: Equipment



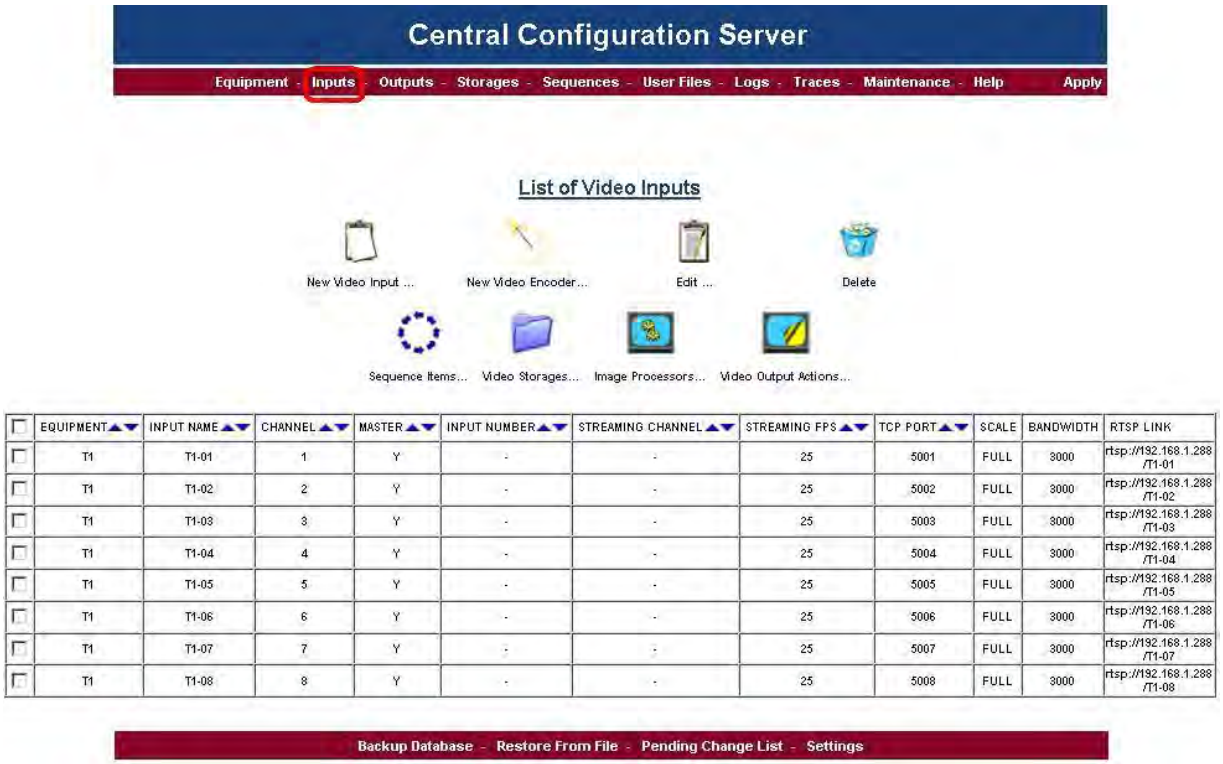
Click Equipment on the menu bar to open the Video Equipment page.

On the Video Equipment page you can:

- List all existing video equipment installed on the network.
- Edit or delete existing video equipment and create new video equipment.
- List, edit, delete, and create new video inputs (input channels) for the selected equipment.
- List, edit, delete, and create new video outputs (output channels) for selected equipment.
- List, edit, delete, and create new audio inputs for selected video equipment.
- List, edit, delete, and create new audio outputs for selected video equipment.
- List, edit, delete, and create new event managers for the selected video equipment.
- List, edit, delete, and create new disk spaces for the selected video equipment for recording of video and audio streams.
- List, edit, delete, and create new serial ports for the selected video equipment.
- List, edit, delete, and create new digital inputs for the selected video equipment.
- List, edit, delete, and create new relay outputs for the selected video equipment.
- List, edit, delete, and create new image processing plug-ins for the selected equipment.
- List, edit, delete, and create and store external data.
- List, edit, delete, and create new logs for each device.
- Monitor the health of the selected equipment.

Video inputs

Figure 13: Video inputs


Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help Apply
List of Video Inputs
New Video Input ...
New Video Encoder...
Edit ...
Delete
Sequence Items...
Video Storages...
Image Processors...
Video Output Actions...
Backup Database - Restore From File - Pending Change List - Settings

EQUIPMENT	INPUT NAME	CHANNEL	MASTER	INPUT NUMBER	STREAMING CHANNEL	STREAMING FPS	TCP PORT	SCALE	BANDWIDTH	RTSP LINK
T1	T1-01	1	Y	-	-	25	5001	FULL	3000	rtsp://192.168.1.288/T1-01
T1	T1-02	2	Y	-	-	25	5002	FULL	3000	rtsp://192.168.1.288/T1-02
T1	T1-03	3	Y	-	-	25	5003	FULL	3000	rtsp://192.168.1.288/T1-03
T1	T1-04	4	Y	-	-	25	5004	FULL	3000	rtsp://192.168.1.288/T1-04
T1	T1-05	5	Y	-	-	25	5005	FULL	3000	rtsp://192.168.1.288/T1-05
T1	T1-06	6	Y	-	-	25	5006	FULL	3000	rtsp://192.168.1.288/T1-06
T1	T1-07	7	Y	-	-	25	5007	FULL	3000	rtsp://192.168.1.288/T1-07
T1	T1-08	8	Y	-	-	25	5008	FULL	3000	rtsp://192.168.1.288/T1-08

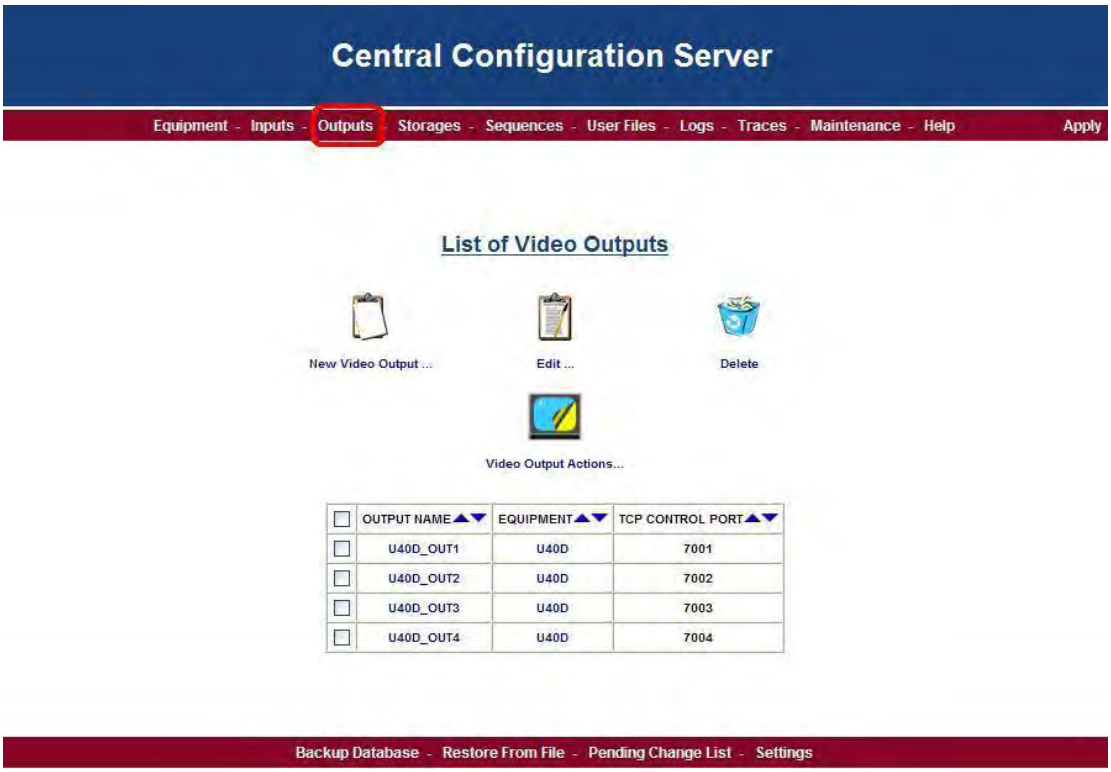
Click Inputs on the menu bar to open the Video Inputs page.

On the Video Inputs page you can:

- Define new video inputs for any video equipment.
- Edit or delete any existing video input.
- List all video inputs (input channels) for all video equipment.
- Add the defined “Inputs” as “Items” of a “Sequence” and subsequently display the “Item list”, edit and delete the items from the list.
- List, edit, delete, and define new display sequence items for the selected current video input.
- List, edit, delete, and define new video storages for the selected current video input.
- List, edit, delete, and define new image processing plug-ins for the selected video input.
- List, edit, delete, and define new video output actions for the selected video input.

Video outputs (UltraView Decoder 10 and UltraView Recorder 40D only)

Figure 14: Video outputs


Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
List of Video Outputs
New Video Output ...
Edit ...
Delete
Video Output Actions...
OUTPUT NAME
EQUIPMENT
TCP CONTROL PORT
U40D_OUT1 U40D 7001
U40D_OUT2 U40D 7002
U40D_OUT3 U40D 7003
U40D_OUT4 U40D 7004
Backup Database - Restore From File - Pending Change List - Settings

Click Outputs on the menu bar to open the Video Outputs page.

On the Video Outputs page you can:

- List all video outputs (output channels) for all video equipment.
- Define new video outputs for any video equipment.
- Edit or delete any existing output channel.
- List, edit, delete, and define new video output actions for the selected output channel.

Caution: Video outputs can only be configured with an UltraView Decoder 10 and UltraView Recorder 40D.

Video storages

Figure 15: Storages

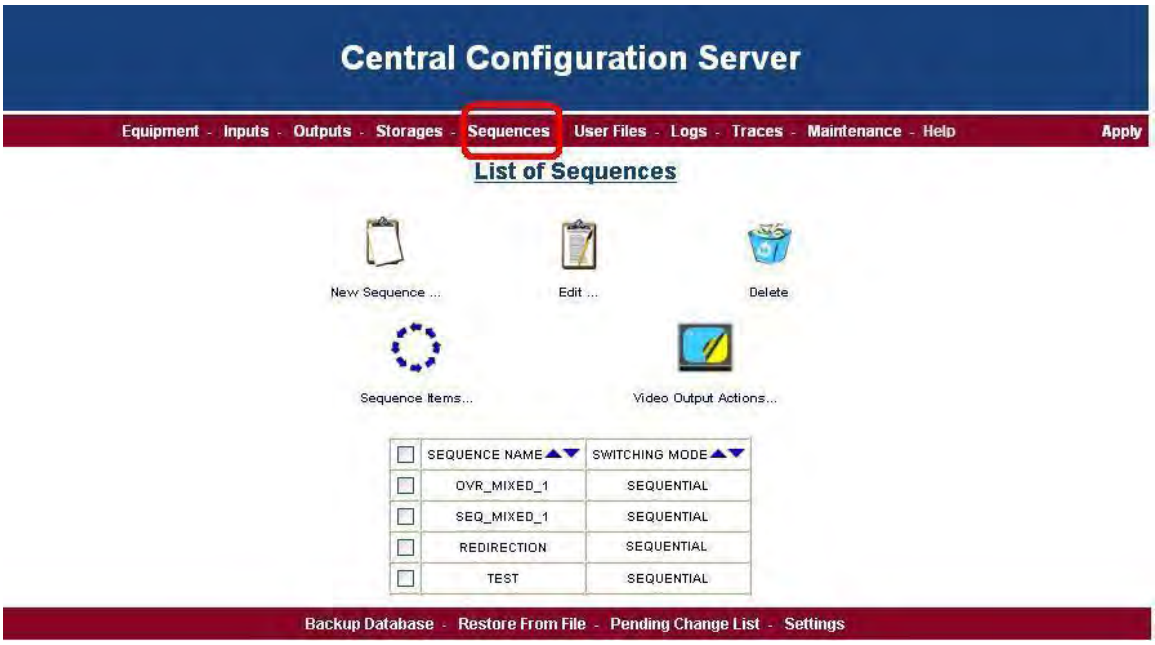
Click Storages on the menu bar to open the Video Storages page.

On the Video Storages page you can:

- List all video storages for all disk spaces on all video equipment.
- Define new video storages on any disk space.
- Edit or delete any existing video storage.
- List, edit, delete, and define new video storage actions for the selected storage.

Video sequences

Figure 16: Video sequences



Click Sequences on the menu bar to open the Video Sequences page.

On the Video Sequences page you can:

- List all display video sequences.
- Edit, delete, and define new display video sequences.
- List, edit, delete, and define new video sequence items for current display sequence.
- List, edit, delete, and define new video output actions for the selected display sequence.

User files

Figure 17: User files

Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
Folder: /
Back
Upload New File
Delete
External Data Plugins
Fonts
PTZ Camera Protocols
System Upgrades
Video Processing Plugins
Visual Alert Files
Backup Database - Restore From File - Pending Change List - Settings

Click User Files on the menu bar to open the User Files page.

On the User Files page you can:

- Navigate, upload, and delete the Windows/Linux Registry configuration files (.reg) and Windows/Linux plug-ins in the External Data Plugins folder.
- Navigate, upload, and delete the true type fonts in the Fonts folder.
- Navigate, upload, and delete different camera protocols in the PTZ Camera Protocols folder.
- Navigate, upload, and delete the upgrade packages in the System Upgrades folder.
- Navigate, upload, and delete the Windows/Linux Registry configuration files (.reg) and Windows/Linux plug-ins in the Video processing folder.
- Navigate, upload, and delete the files in the Visual Alert files folder.

Logs

Figure 18: Logs

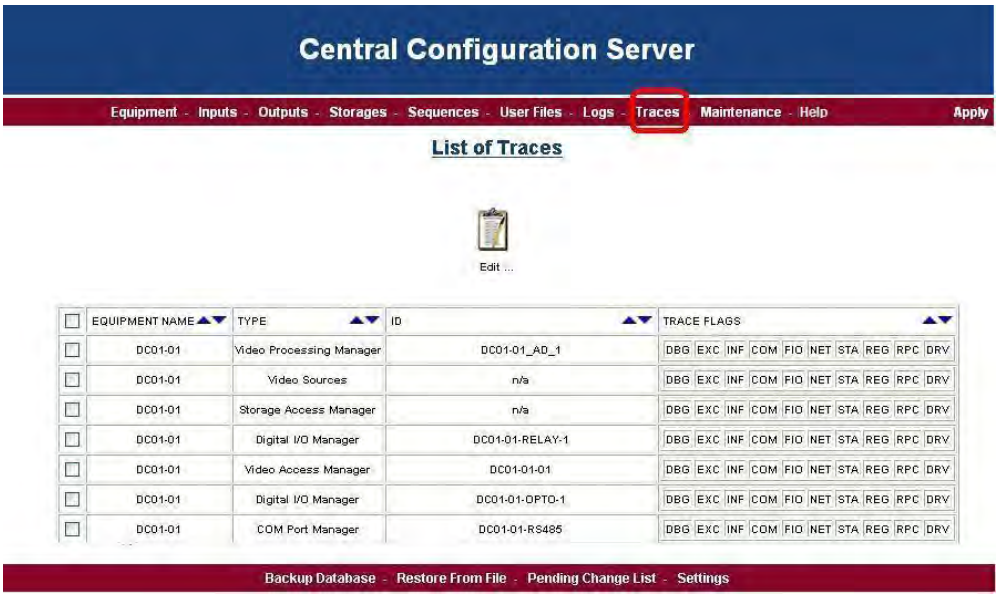
Click Logs on the menu bar to open the List of Logs page.

On the Logs page you can create, edit, and delete logs.

These logs are used mainly for debugging purposes to trace the problems and should be used only by an expert (it is usually used by UTC Fire & Security support engineers).

Traces

Figure 19: Traces

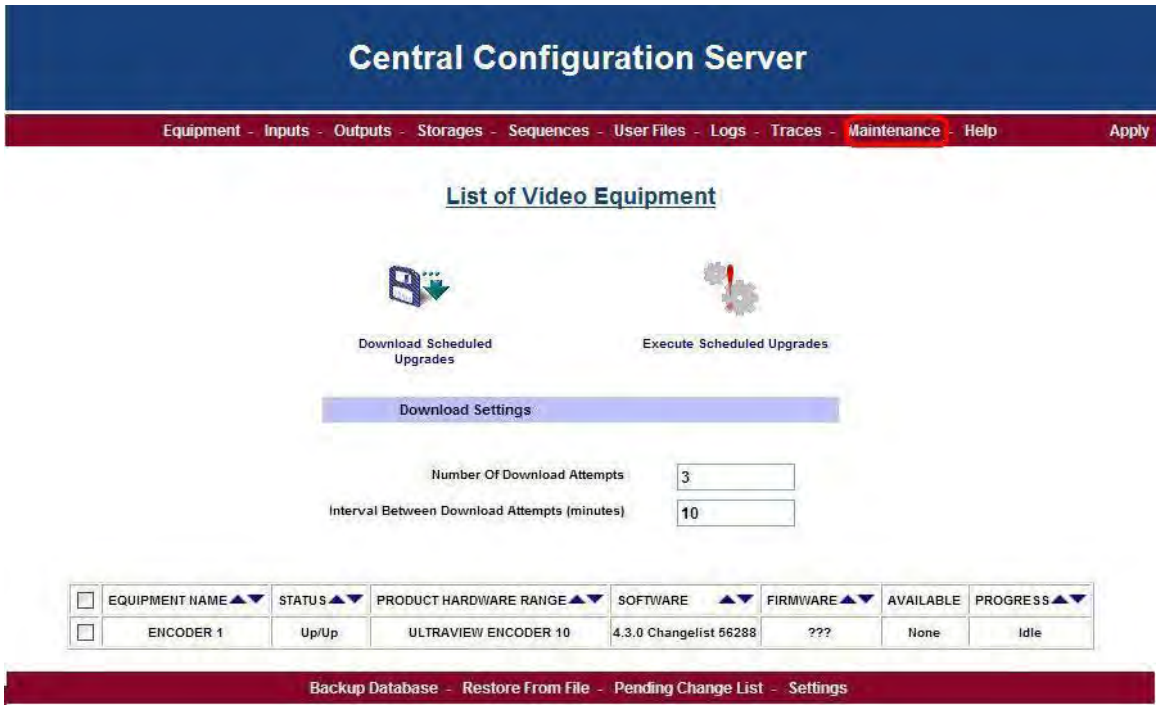

Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
List of Traces
Edit ...
EQUIPMENT NAME
TYPE
ID
TRACE FLAGS
DC01-01 Video Processing Manager DC01-01_AD_1 DBG EXC INF COM FIO NET STA REG RPC DRV
DC01-01 Video Sources n/a DBG EXC INF COM FIO NET STA REG RPC DRV
DC01-01 Storage Access Manager n/a DBG EXC INF COM FIO NET STA REG RPC DRV
DC01-01 Digital I/O Manager DC01-01-RELAY-1 DBG EXC INF COM FIO NET STA REG RPC DRV
DC01-01 Video Access Manager DC01-01-01 DBG EXC INF COM FIO NET STA REG RPC DRV
DC01-01 Digital I/O Manager DC01-01-OPTO-1 DBG EXC INF COM FIO NET STA REG RPC DRV
DC01-01 COM Port Manager DC01-01-RS485 DBG EXC INF COM FIO NET STA REG RPC DRV
Backup Database - Restore From File - Pending Change List - Settings

Click Traces on the menu bar to open the Traces page.

On the Traces page you can list all the traces and edit individual traces flags. These traces are used mainly for debugging purposes to trace the problems and should only be used by an expert (it is usually used by UTC Fire & Security support engineers).

Maintenance

Figure 20: Maintenance


Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
List of Video Equipment
Download Scheduled Upgrades
Execute Scheduled Upgrades
Download Settings
Number Of Download Attempts
3
Interval Between Download Attempts (minutes)
10
EQUIPMENT NAME
STATUS
PRODUCT HARDWARE RANGE
SOFTWARE
FIRMWARE
AVAILABLE
PROGRESS
ENCODER 1 Up/Up ULTRAVIEW ENCODER 10 4.3.0 Changelist 56288 ??? None Idle
Backup Database - Restore From File - Pending Change List - Settings

Click Maintenance on the menu bar to open a page displaying an overview of installed software/driver packages for each device configured in the UltraView CCS.

If upgrade packages have been uploaded, in the “System Upgrades” of user files section, the UltraView CCS automatically extracts the version number of each package and adds it to the list.

Help

Click Help on the menu bar to open context-sensitive web help topic.

The administrative bar

Figure 21: Administrative bar

Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
Backup Database - Restore From File - Pending Change List - Settings
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The administrative bar is located at the bottom of the start page and contains links to these administrative functions:

- The Backup Database function allows you to list and save existing configuration data to a file. This function also provides an overview of the configuration data for a site.
- A saved configuration can be restored with the Restore from File function.
- The Pending Change List function lists current changes, that is, all configuration changes made since the last time that Apply was clicked. Clicking Clear deletes this list.
- The Settings function allows you to set the default video standard for all video input channels and video output channels respectively.

Equipment configuration

Note: UltraView Encoder 10-based IP cameras can also be configured using the Embedded Web Server (EWS). EWS is a web-based tool that provides basic monitoring and configuration features to video equipment.

List video equipment

In this document the term Video Equipment or Equipment refers to UltraView video equipment. See “Hardware compatibility list” on page 175 for details.

Figure 22: List of equipment

Click Equipment in the upper menu bar from any page to open the List of Video Equipment page. This page lists all video equipment on the network in tabular form.

- Equipment Name - unique name of the video equipment.
- IP Address or DNS Name - DNS name or IP address of the network controller.
- Product Hardware Range - rack-mounted chassis model.

Note: On this page, you can either create new video equipment or edit the parameters of the selected equipment from the displayed list.

Add video equipment

To add video equipment, follow these steps:

1. Open List of Video Equipment page described in “List video equipment” on page 25.
2. Click New Video Equipment to open the Basic Parameters window in the new equipment wizard.

Figure 23: Wizard - basic parameters

3. Enter the video equipment name, and then its IP address or DNS name.

   Note: You must enter the name that is already defined in Windows and the IP address of the video equipment on the network. The network administrator should provide this data.

4. Select the video equipment from the Product Hardware Range field. Choose from the following devices:
   - Discovery 2405
   - Centralized Video Recording Server
   - Video Content Analysis Server
   - UltraView Recorder 60
   - UltraView Recorder 40
   - UltraView Recorder 40D
   - Evolution HD 3005
   - UltraView Encoder 10
   - UltraView Decoder 10
   - UltraView Fixed Dome Wide Dynamic Range
   - UltraView Fixed Dome Standard
   - UltraView Brick Camera Wide Dynamic Range
   - UltraView Brick Camera Standard
   - UltraView NVR 80
   - UltraView NVR 82
   - TruVision NVR 40

5. Enter the number of channels in the Available Video Channels field. Maximum number of channels that can be specified depends on the equipment selected:

   - Evolution HD 3005: up to 30
   - Discovery 2405: up to 24
   - UltraView Recorder 40: up to 12
   - UltraView Recorder 60: up to 24

   The number of video channels depends on how many UltraView video codec boards are installed in the video equipment and the form factor of the video codec board (PCI or CompactPCI). The form factor of the video codec board used in the UltraView Recorder 40 and Discovery 2405 provides four independent video channels (PCI form factor). The form factor of the video codec board used in the Evolution HD 3005 provides six video channels (CompactPCI form factor).

6. Click Next to open the Channel Type wizard.

Figure 24: Wizard - video channel type

Channel Type
2 / 7
1. EM 1-01 INPUT CMA AD
2. EM 1-02 INPUT CMA AD
3. EM 1-03 INPUT CMA AD
4. EM 1-04 INPUT CMA AD
5. EM 1-05 INPUT CMA AD
6. EM 1-06 INPUT CMA AD
7. EM 1-07 INPUT CMA AD
8. EM 1-08 INPUT CMA AD
9. EM 1-09 INPUT CMA AD
10. EM 1-10 INPUT CMA AD
11. EM 1-11 INPUT CMA AD
12. EM 1-12 INPUT CMA AD
13. EM 1-13 INPUT CMA AD
14. EM 1-14 INPUT CMA AD
15. EM 1-15 INPUT CMA AD
16. EM 1-16 INPUT CMA AD
17. EM 1-17 INPUT CMA AD
18. EM 1-18 INPUT CMA AD
19. EM 1-19 INPUT CMA AD
20. EM 1-20 INPUT CMA AD
21. EM 1-21 INPUT CMA AD
22. EM 1-22 INPUT CMA AD
23. EM 1-23 INPUT CMA AD
24. EM 1-24 INPUT CMA AD
< Back
Next
Finish
CANCEL

7. Specify whether each video channel will be used as an input or output video channel by means of the drop-down list. The number of video channels depends on the type of equipment selected and the number specified in the Basic Parameters window. For example, selecting the UltraView Recorder 60 and specifying 24 channels will show 24 channels.

- Each video channel can only be used for one purpose, as capture (video input). However, for the UltraView Recorder 40D, the redirection (video output) option is possible.
- There is also an “Idle” option that can be selected if the channel is not currently used.
- The video channel identifiers are automatically generated but can be edited later. A video channel identifier must be unique.

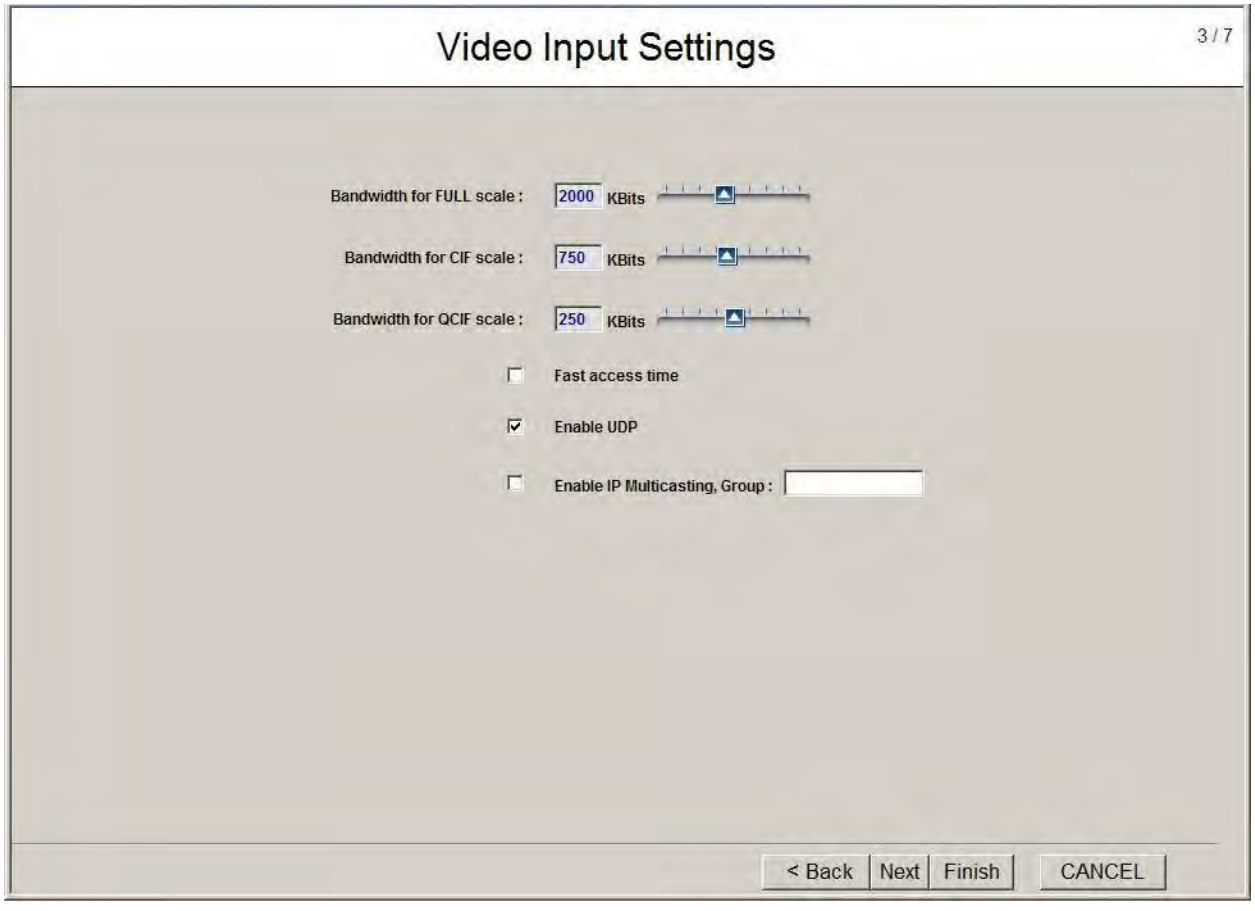
Note: With the UltraView Decoder 10 and UltraView Recorder 40D equipment redirection (video output) is possible.

For an explanation of how the video channels are numbered see “Video channel numbering” on page 114.

Note: Verify that the video channel types (video input or output) correspond with the physical BNC connections actually made on the video codec boards. If a video codec board is removed from the video equipment, the logical channel numbers will change, and the video input and output channels must be re-configured.

8. Click next to open the Video Input Settings wizard.

Figure 25: Wizard - video input settings



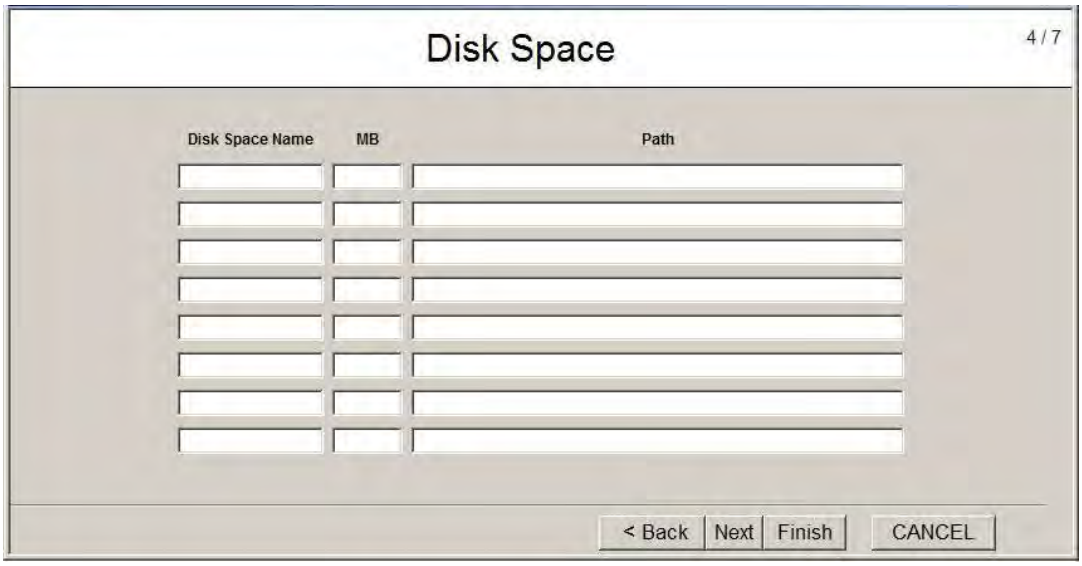
In this window, you can configure the video input settings common to all video input channels on the current piece of video equipment. Each channel can be configured later, on the Edit Video Input page as described in “Edit video input” on page 123.

Bandwidth for FULL scale	Define targeted bandwidth for a FULL, 25/30 fps video stream.
Bandwidth for CIF scale	Define targeted bandwidth for a CIF, 25/30 fps sub-resolution stream.
Bandwidth for QCIF scale	Define targeted bandwidth for a QCIF, 25/30 fps sub-resolution stream.
Fast access time	If enabled, access time is prioritized vs. video quality (default: disabled).
Enable UDP	Allow UDP connection (if not checked; only TCP connection will be authorized). For example, no remote live/playback will be available.
Enable IP Multicasting Group	Defines an IP multicast group.

Note: Consult the network administrator to make sure the network is IP multicast enabled before checking the Enable IP multicast; Group option. Enter IP multicast group address (224.0.0.0 to 247.255.255.255) for the first channel in the video equipment. The addresses for the subsequent channels will be generated automatically by incrementing the address of the first video channel. For example, if the address of the first video channel on a piece of equipment is set to 230.0.10.1, the fifth channel will have the address 230.0.10.5 assigned to it. Keep in mind that all channels on all video equipment on the network must have unique addresses.

9. Click Next to open the Disk Space wizard.

Figure 26: Wizard - disk space



In this window, you can specify several disk spaces at the same time, on the selected video equipment. Disk spaces can be added later, but only one at a time, on the New Disk Space page as described in “Disk spaces” on page 53.

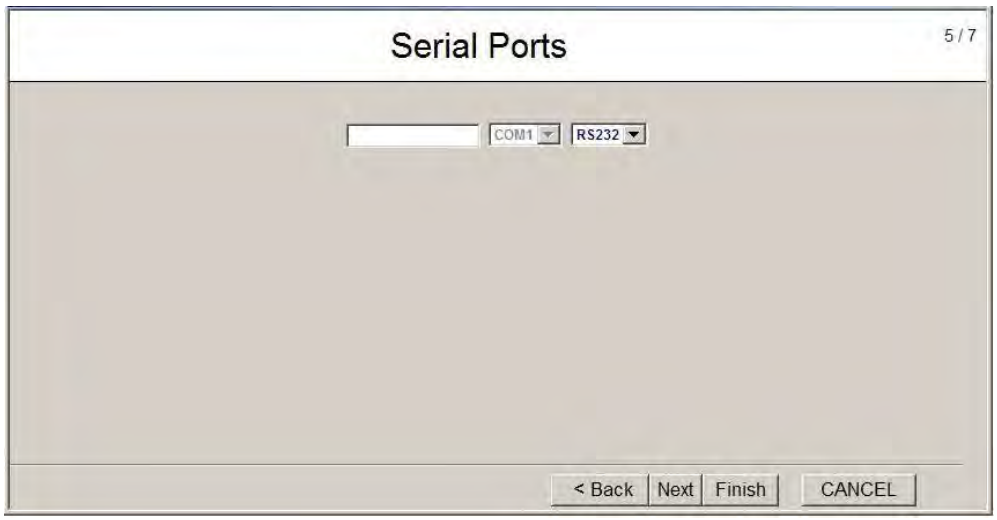
Note: Multiple video streams can be stored on the same disk space, but one video stream cannot be stored on a span of disk spaces. For maximum flexibility, we recommend setting one disk space per physical disk partition on the video equipment or attached storage equipment.

10. Define the different parameters in this wizard.

Disk Space Name	Unique short name for referencing the disk space.
Size (Mb)	Size of the disk space in Mbytes.
Path	Path to the disk space directory.

11. Click Next to open the Serial Ports wizard.

Figure 27: Wizard - serial ports



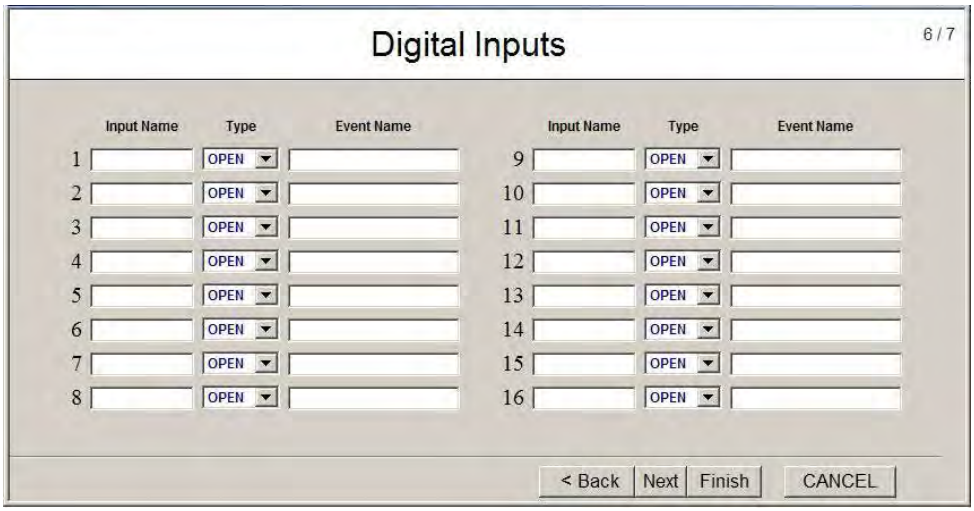
In this window, you can define several serial ports on the new video equipment to be used for connection to telemetry devices. The baud rate, data bits, parity, and stop bits parameters will have default values of respectively 9600, 8, N, 1 assigned to them. These default values can be edited later, on the Edit Serial Port page as described in the section “Edit serial port” on page 74.

12. Define the different parameters in this wizard.

Serial Port Name	Unique short name for referencing the port.
Port	Hardware port for connecting external serial device. The number of available ports is hardware-specific and additional COM ports can be added later in the process.
Type	Electrical signaling type. Can be RS232, RS485 HALF DUPLEX, or RS422/RS485 FULL DUPLEX depending on hardware type.

13. Click Next to open the Digital Inputs wizard.

Figure 28: Wizard - digital inputs



In this window, you can define several digital input names (if there is an optional digital I/O board included in the video equipment) on the video equipment. The digital inputs defined here can then be further configured (port, line number, poll interval) on the Edit Digital Input wizard as described in “Edit Digital Input” on page 90. The lines 1 to 16 on the digital I/O board are input numbers.

Digital input definitions can also be added later, but only one at a time, on the New Digital Input page as described in “Add digital input” on page 89.

14. Define the different parameters in this wizard.

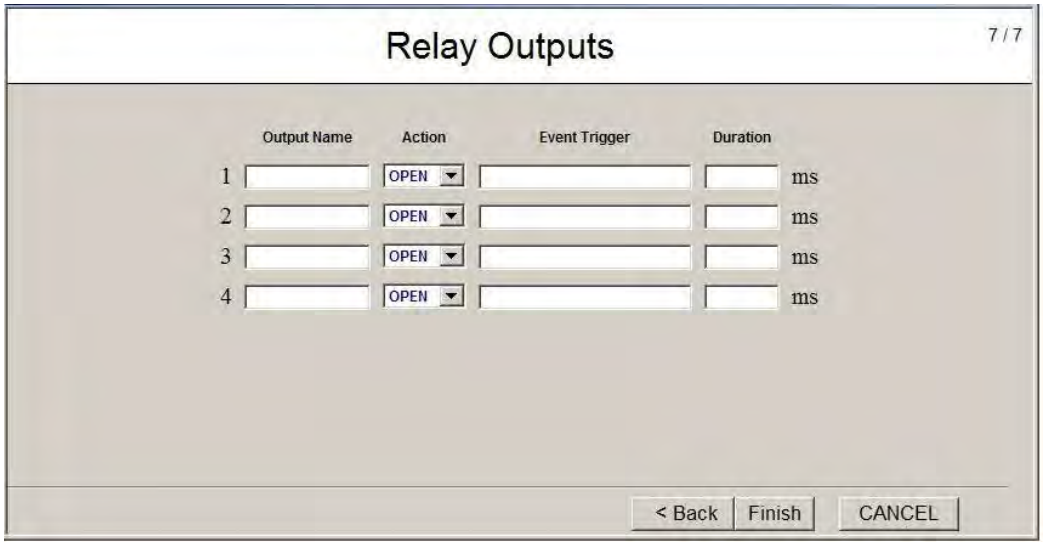
Input Name	Unique short name of the digital input line. This line number is used later, to assign the input number on the board.

Note: Here the inputs are numbered from 1 to 16 but on the digital I/O board the input channels are numbered from 0 to 15.

Type	Type of action (digital input OPEN/CLOSE) that triggers the event defined in the Event field.
Event Name	Name of the event that is activated when the defined action occurs due to a change in the digital input voltage.

15. Click Next to open the Relay Outputs wizard.

Figure 29: Wizard - relay outputs



In this window, you can define several relay outputs (if there is an optional digital I/O board included in the video equipment) on the equipment at the same time. The relay outputs defined can be also configured (relay output name, relay output line number, TCP port, initial state) on the Edit Relay Output page as described in “Edit relay output” on page 94.

On the New Relay Output page, relay outputs can be added later, but only one at a time.

Output Name	Unique short name of the relay output line. This line number is used to assign the Relay Output Number.

Note: Here the outputs are numbered from 1 to 8 but on the digital I/O board the relay outputs are numbered from 0 to 7.

16. Define the different parameters in the wizard.

Action	Type of relay action (relay open/close).
Event Trigger	Name of the event that triggers the relay action defined in the action field.
Duration	Duration of the relay action in ms. “0” means permanent.

17. Click Finish to complete the creation of the new video equipment.

The new video equipment name together with its parameter definitions should be displayed together with a message informing the user that new video equipment has been successfully created.

Figure 30: Completing the new equipment wizard

18. Click OK to exit the Wizard and the process of creating new video equipment.

Note: The new video equipment should now appear in the List of Video Equipment.

Edit video equipment

To edit video equipment, follow these steps:

1. Open List of Video Equipment page as described in “List video equipment” on page 25.
2. Select the equipment you want to edit by checking the box in the leftmost column of the displayed list.
3. Click the Edit icon. The Edit Video Equipment page will open.
4. Edit the parameters as needed and click OK to confirm the changes.

You can define the following parameters on this page:

System information

Equipment Name	Unique name of the video equipment.

Note: Changing the video equipment name is not advised.

IP Address or DNS Name	DNS name or IP address of the network interface.
Product Hardware Range	UltraView digital video equipment model.
Available Video Channels	Number of available video channels in the video equipment.
Time Zone	This is the standard time zone (“Europe / Paris”, “etc. / GMT+1”, etc.).

Note: From GMT, a positive sign means that one is moving to the east and a negative sign signals a move to the west (unlike the POSIX standard used previously).

Storage

Storage Manager Time Granularity (min)	Duration in minutes of each file created by the Storage Manager at registration of video streams. See section “Storage recommendations” on page 137 for recommendations on the values to be used. (Default value: 10)
Max Alarms Log Files Entries	The maximum number of alarms associated with each storage, i.e. the maximum number of alarms displayed in the alarm.log files. When this limit is reached, the oldest alarms are discarded. (Default value: 5000)
Overwrite Oldest Alarms if Necessary	You can choose “ON” or “Off”. If set to “On”, and the maximum number of alarms is reached for a recording, the new alarms will be taken into account but the oldest alarms will be deleted. If set to “Off”, then the new alarms will be ignored. (Default value: ON)
Video Storage Manager TCP control port	TCP port on which the Video Storage Manager will accept control commands. (Default value: 10001)
Audio Storage Manager TCP control port	TCP port on which the Audio Storage Manager will accept control commands. (Default value: 10002)
Data Storage Manager TCP control port	TCP port on which the Data Storage Manager will accept control commands. (Default value: 10003)
Video Plug-in Storage Manager TCP control port	TCP port on which the Video Plug-in Manager will accept control commands. (Default value: 10004)
Storage Access Manager TCP control port	TCP port on which the Storage Access Manager will accept control commands. (Default value: 11001)

Enable file eraser (disabled by default, if enabled the service is running)

File Retention Time (min)	Amount of time a file will be stored. Files older than the retention time will be automatically deleted.
Activation Period (min)	Define the occurrence of the File Eraser‟s checking mechanism.

File streaming

First TCP Port	First TCP port used to stream video/audio. Each video/audio connection to the equipment will increment the port number, starting from this value. (Default value: 15001)
Last TCP Port	Last TCP port used to stream video/audio. This parameter is used to limit the number of allowed connections on a specific device. (Default value: 65535)

Enable UDP	If this checkbox is not active, no video (live or playback) will be streamed from the equipment
UDP Source Port	Source Port (useful for port base QoS). (Default value: 0)
UDP Interface	UDP sending Interface. For example, NIC (Network Interface Card) used for the Ethernet connection.
TOS Value	Type-of-Service. Each IP Datagram has an 8-bit field called the TOS Byte, which represents the IP support for prioritization and Type-of-Service handling. See “Glossary” on page 177 for detailed explanation.
Enable IP Fragmentation by Network Interface Card (NIC)	IP fragmentation done directly by network card. (Default) If disabled, the IP fragmentation is done at software level.

SNMP configuration

Read/Write Community	Name of the read/write community required for set operations. (Default value: private)
Trap Community	Name of the community used when sending trap messages. (Default value: public)
Trap Destinations List	Space separated list of SNMP trap destinations (IP address or DNS name).
Accept SNMP packets from these hosts	Defines hosts from which SNMP packets will be accepted (IP address or host name). Only requests (to VOS) from the authorized computers will be accepted.

Alarm management

Event / SNMP Trap Dispatching Period (ms)	Event / SNMP Trap Dispatching Period when an alarm is active (ms). (Default value: 10000)

Authentication

Enable Authentication	Turn ON / OFF video / audio stream authentication (uncheck by default).
Authentication Period	Time elapsed between frame signatures (in seconds). (Default value: 4)

Note: Refer to the Authentication Reference Manual for further details about how authentication is performed.

Rpc tunnel

Enable Rpc Tunnel	Turn ON / OFF Rpc tunneling function (unchecked by default). This feature eases firewall integration by using one single port for all UltraView SDK calls to the equipment, instead of the standard list of ports (see section “VOS ports” on page 176). Make sure you use the same port number at the UltraView SDK level.

Tunnel Port	Rpc tunnel service port number. (Default value: 3000) **Note**: Do not use ports 9000 and 4000, as they are already used by the maintenance and upgrade manager. These ports must also be opened at the firewall.

Note: Refer to the UltraView VOS Network Configuration Reference Manual for further details about tunnel ports.

RTP

TCP Port	RTP streaming port number. (Default value: 554)
First TCP Port (RTP)	The first TCP port used for streaming by RTP.
Last TCP Port (RTP)	The last TCP port used for streaming by RTP.
RTP MTU	Specify the Maximum Transmission Unit. (Default value: 1450) **Note**: When streaming video using VLC Player, network interface MTU size must be configured to a value of less than 10,000.
Session Timeout	Timeout value in case of network loss. (Default value: Max)
Session Login	RTP session login definition. (Default value: blank)
Session Password	RTP session password definition. (Default value: blank)

Delete video equipment

To delete video equipment, follow these steps:

1. Open the List of Video Equipment page as described in “List video equipment” on page 25.
2. Select the video equipment by checking the corresponding box.
3. Click the Delete icon. The video equipment will be deleted from the list.

Video inputs

The term Video Input refers to a video channel on UltraView video codec board that has been defined as video input channel, that is, it will be used for connection of input video sources, such as analog PAL/NTSC cameras, IP cameras, and IP encoders. Each video input channel is completely independent.

The video inputs can be displayed all together or as video inputs for one video device.

For detailed description of configuration options, see “Video inputs configuration” on page 112.

Video outputs

The term Video Output refers to a video channel on a video codec board that has been defined as Video Output Channel, that is, it will be used for redirection of decompressed video streams to PAL/NTSC analog monitors.

The video outputs can either be displayed all together in one list, or in separate lists with the video output channels defined for particular video equipment.

Note: You can only configure Video Outputs with UltraView Decoder 10 and UltraView Recorder 40D.

For a detailed description of configuration options, see “Video outputs configuration” on page 125.

Audio inputs

The term Audio Input refers to an audio channel, USB audio module, or external IP audio device.

Note: If there is a problem with the audio device functioning correctly, install the QoS (Quality of Service) RSVP (Resource Reservation Protocol) libraries. You can find these libraries in the VOS root folder: VWService\Windows\QoS RSVP\QoSRSVP.msi

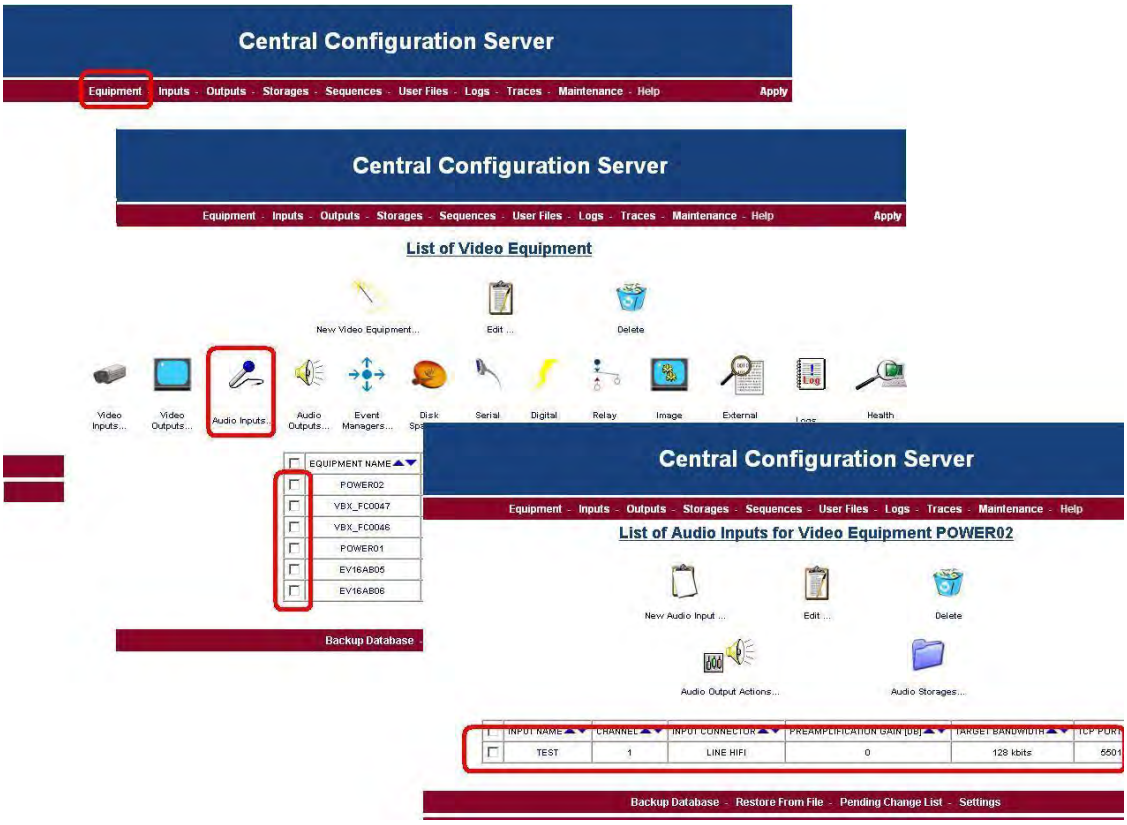
List audio inputs

All the Audio Inputs associated with the selected video equipment are displayed in a list.

To list audio inputs, follow these steps:

1. Open the List of Video Equipment as described in “List video equipment” on page 25.
2. Select the equipment to display the List of Audio Inputs associated with it by checking the box in the leftmost column of the displayed list.
3. Click the Audio Inputs icon. The List of Audio Inputs for Video Equipment page will open. The list is displayed in a tabular form.

Figure 31: List of audio inputs for video equipment



On this page, you can:

- Display the list of Audio Inputs for the selected video equipment.
- Create, edit, and delete new Audio Inputs for the selected equipment.
- Define Audio Output Actions for the selected Audio Input from the displayed list.
- Define Audio Storages for the selected Audio Input from the displayed list.

Add audio input

Note: USB audio modules are only available for Discovery 2405, UltraView Recorder 60, and UltraView Recorder 40/40D. The maximum number of USB audio modules is 3.

To add audio input to selected video equipment, follow these steps:

1. Open the List of Audio Inputs as described in “List audio inputs” on page 37.
2. Click the New Audio Inputs icon. The New Audio Input for the Video equipment page will open.
3. Edit the parameters as needed and click OK to confirm the changes.

The newly created audio input is displayed in the List of Audio Inputs for Video Equipment.

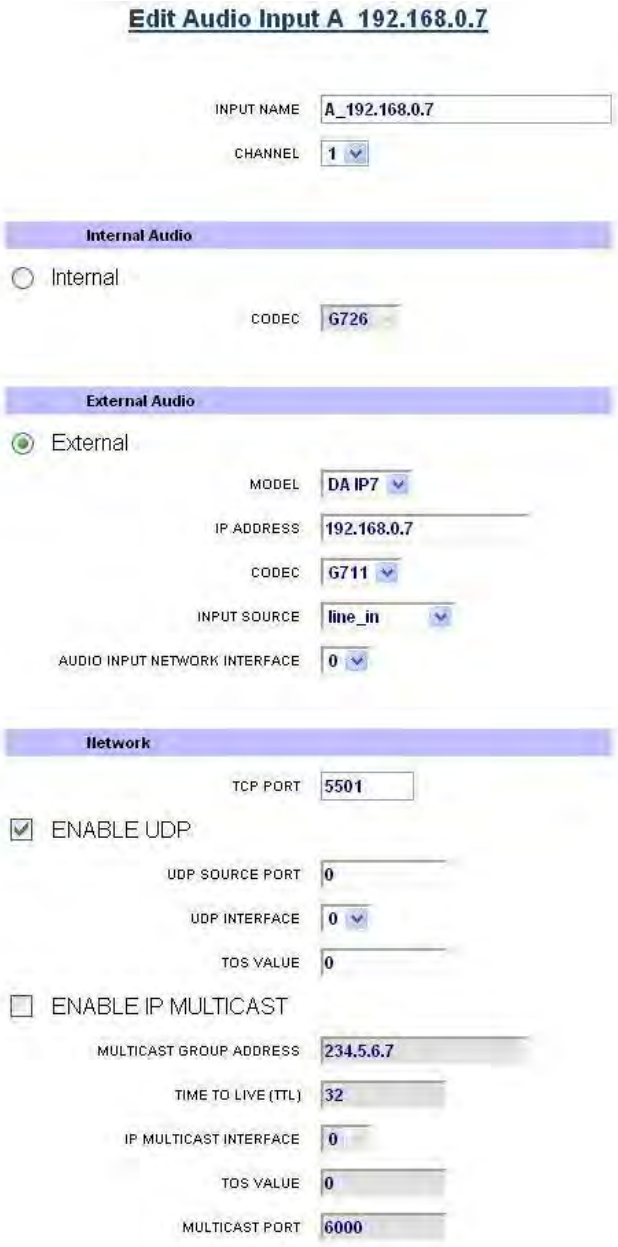
Note: By default, the first TCP port for an audio stream starts at 5501.

You can define the following parameters on this page:

Input Name	Define the audio input name for the selected video equipment.
Channel	Define the channel numbers corresponding to the audio input.
Internal Audio	Internal audio module (for example, USB audio module).
Codec	Select the format in which the audio signal is encoded. G726: Compressed ITU-T ADPCM audio format.
External Audio	External IP audio device, which can be connected via Ethernet and has its own IP address.
Model	Select the appropriate IP audio device.
IP Address	An IP address of the external IP audio device.
Codec	Select the format in which the audio signal is encoded.
Input Source	Input type used to connect to the IP audio device (for example, line in or microphone).
Audio Input Network Interface	Select the interface that will connect to external audio.
Network	Select desired network protocols for this audio input. For more information see “To add a video input” on page 114.
TCP Port	This is the unique TCP port number for the plug-in. (Default value: 5501)
Enable UDP	Select this checkbox to activate the UDP options.
UDP Source Port	Define this if it is different from the default UDP port.
UDP Interface	Interface number of the network board. (Default value: 0)
TOS Value	Type-of-Service. Each IP Datagram has an 8-bit field called the TOS Byte, which represents the IP support for prioritization and Type-of-Service handling. See “Glossary” on page 177 for detailed explanation.
Enable IP Multicast	Check this box to activate IP Multicast options.
Multicast Group Address	Enter multicast group address (224.0.0.0 to 247.255.255.255) for the first channel. The addresses for the subsequent channels will be generated automatically by incrementing the address of the first channel. For example, if the address of the first channel in video equipment is set to 230.0.10.1, the fifth channel will have the address 230.0.10.5 assigned to it. Keep in mind that all channels on all equipment on the network must have unique addresses.
Time to Live (TTL)	Internet's unbroken growth and recent fundamental topology changes within the international backbone occasionally cause some connectivity problems. In most cases, the problems could be identified as hosts sending out IP packets with too small initial TTL (Time To Live) values. In worse case, the maximum hop counts of up to 40 can be observed. TCP and UDP initial TTL values should be set to a "safe" value of at least 60. (Default value: 32)

IP Multicast Interface	IP Multicast sending interface number.
TOS Value	Type-of-Service. Each IP Datagram has an 8-bit field called the TOS Byte, which represents the IP support for prioritization and Type-of-Service handling. See “Glossary” on page 177 for detailed explanation.
Multicast Port	Unique Multicast port. Cannot be set to 0.

Figure 32: Audio inputs configuration



Edit audio input

To edit audio inputs, follow these steps:

1. Open the List of Audio Inputs as described in “List audio inputs” on page 37.

2. Select the audio input name from the displayed list by checking the box in the leftmost column.
3. Click the Edit icon. The Edit Audio Output for Video Equipment page will open.
4. Edit the parameters as needed and click OK to confirm the changes.

Note: Clicking the name in the displayed list also opens the edit page.

For information about parameters, see “Add audio input” on page 38.

Delete audio input

To delete audio input, follow these steps:

1. Open the List of Audio Inputs page as described in “List audio inputs” on page 37.
2. Select the audio input by checking the corresponding box.
3. Click the Delete icon. The audio input will be deleted from the list.

Audio output actions

See “Audio output action” on page 47

Audio storages

See “List audio storages” on page 65.

Audio outputs

The Audio Output Manager controls audio output replay onto an external speaker or line out using one of the following types of hardware:

- Discovery 2405
- UltraView Recorder 40/40D
- UltraView Recorder 60

The following parameters can be adjusted remotely by using the Audio Output Manager Active X control:

- Audio output name
- Channel
- TCP port
- Volume

List audio outputs

All the audio outputs associated with the selected video equipment are displayed in a list.

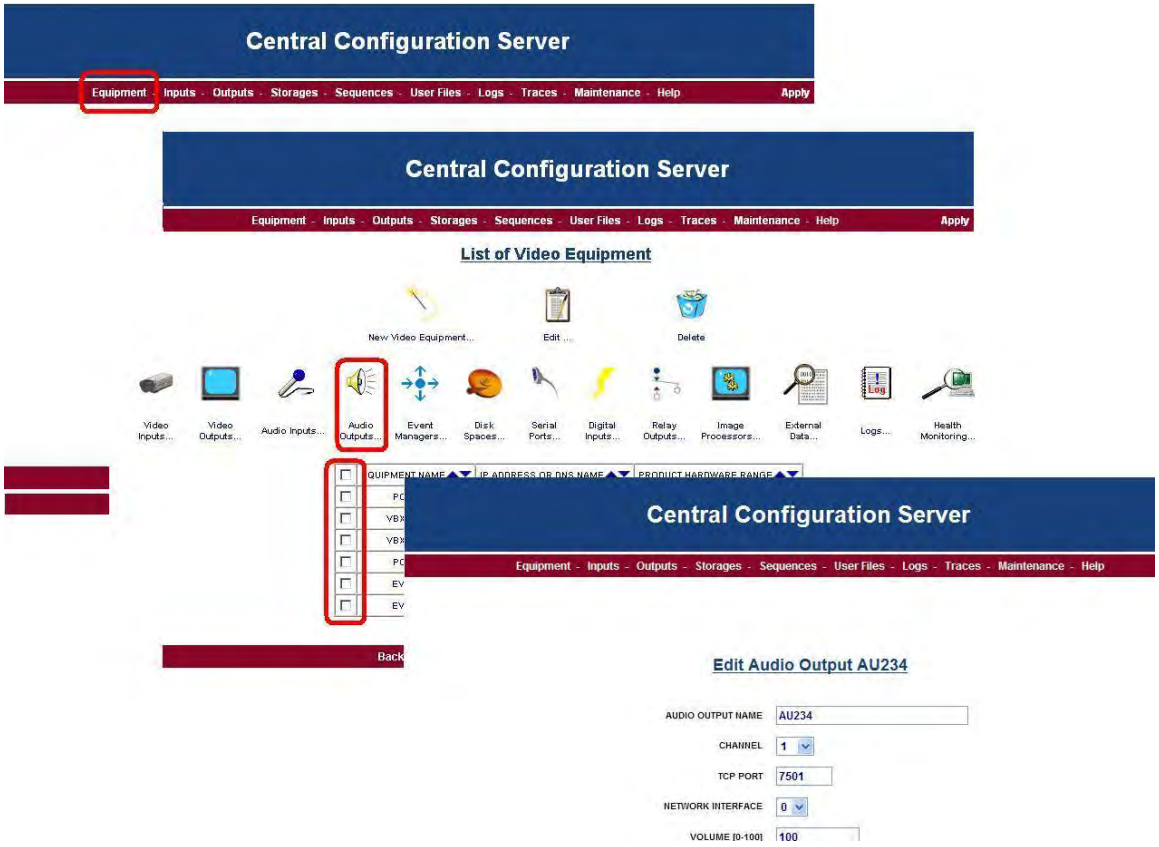
To view audio outputs, follow these steps:

1 Open the List of Video Equipment as described in “List video equipment” on page 25.

2 Select the equipment to display the list of audio outputs associated with it by checking the box in the leftmost column of the displayed list.

3. Click the Audio Outputs icon. The List of Audio Outputs page for Video Equipment will open. The list is displayed in a tabular form.

Figure 33: List of audio outputs



On this page, you can:

- Display the list of all the audio outputs associated with the selected video equipment.
- Create a new audio output for the selected video equipment.
- Edit or delete any audio output from the displayed list.
- Group all the selected audio outputs from the displayed list.
- Define audio output actions for the selected audio outputs from the displayed list.

Add audio output

To add a new audio output to selected video equipment, follow these steps:

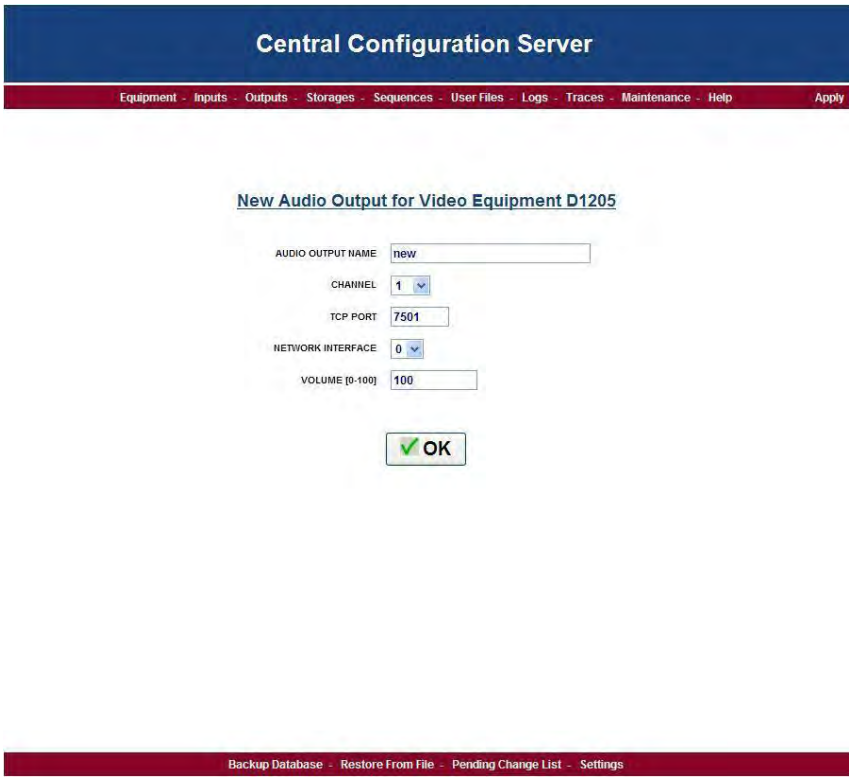
1. Open the List of Audio Outputs as described in “List audio outputs” on page 41.
2. Click the New Audio Outputs icon. The New Audio Output for the Video Equipment page will open.
3. Edit the parameters as needed and click OK to confirm the changes.

The new audio output should now appear in the List of Audio Outputs for the current video equipment.

You can define the following parameters on this page:

Audio Output Name	Define the name for the new audio output.
Audio Channel	Define the channel for the new audio output. The availability of channels depends on the video equipment selected. For example, for the UltraView 40, you can of select a maximum of three channel numbers.
TCP Port	Define TCP port that is used by the UltraView SDK. (Default value: 7501)
Network Interface	The interface number to be used for audio input. (Default value: 0)
Volume	Define the volume, within the range 0 to 100. (Default value: 100)

Figure 34: New audio outputs



Edit audio output

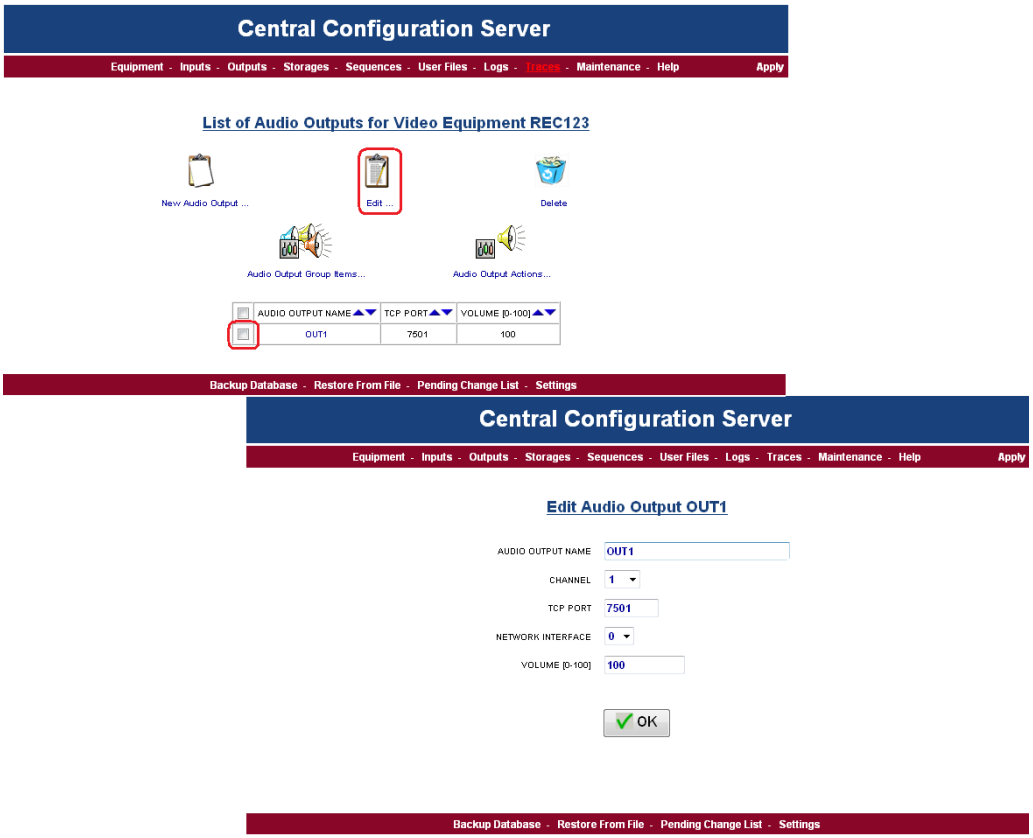
To edit an audio output, follow these steps:

1. Open the List of Audio Outputs as described in “List audio outputs” on page 41.
2. Select the audio output name from the displayed list by checking the box in the leftmost column.
3. Click the Edit icon. The Edit Audio Output page will open.
4. Edit the parameters as needed and click OK to confirm the changes.

Note: Clicking the name in the displayed list also opens the edit page.

See “Add audio output” on page 42, for a description of the displayed parameters.

Figure 35: Edit audio output



Delete audio output

To delete audio output, follow these steps:

1. Open the List of Audio Outputs page as described in “List audio outputs” on page 41.
2. Select the audio output by checking the corresponding box.
3. Click the Delete icon. The audio output will be deleted from the list.

Audio output group items

All the audio outputs can be grouped together. The advantage of grouping the audio outputs is that the same audio stream can be multicasted in a single action to multiple audio output devices.

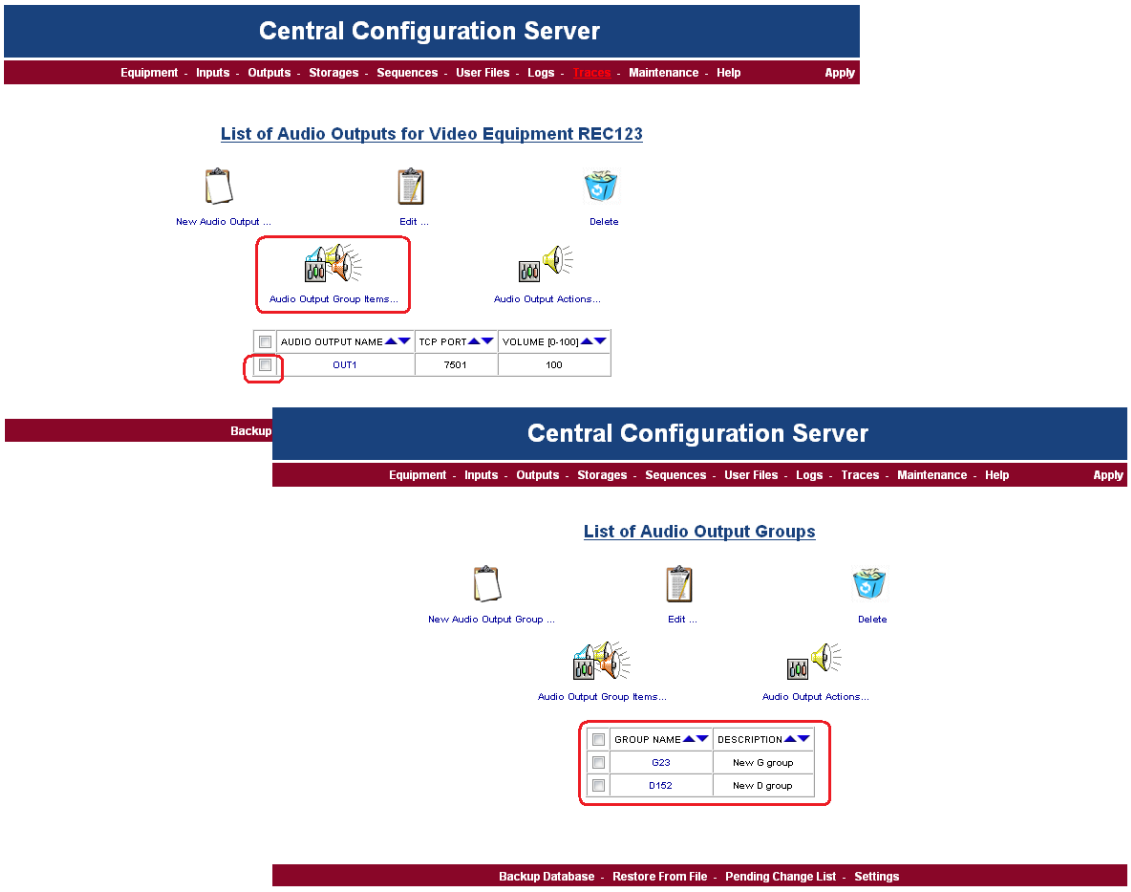
Note: Audio output can belong to one or multiple audio output groups at the same time.

List audio output group items

To list all audio outputs groups associated with selected video equipment, follow these steps:

1. Open the List of Audio Outputs as described in “List audio outputs” on page 41.
2. Select the audio output name from the displayed list by checking the box in the leftmost column.
3. Click the Audio Output Group Items icon. The List of Audio Output Group Items for the Audio Output page will open. The list is displayed in tabular form. All the groups associated with the selected audio output are displayed in the list.

Figure 36: List of audio output group items



Add audio output group item

You can add a new Audio Output Group Item to the displayed list and later assign the selected audio output to this newly formed group.

To add an Audio Output Group item, follow these steps:

1. Open the List of Audio Output Group Items as described in “List audio output group items” on page 44.
2. Click the New Audio Output Group Item icon. The New Audio Output Group Item page for Audio Output will open.
3. Click New, the New Audio Output Group page will open.
4. Edit the parameters as needed and click OK to confirm the changes.

4. The newly created group will become part of the Group Name list. You may not be able to see the newly formed group immediately if some groups already exist. To see the group, you will have to click the drop down list.
5. To associate the newly formed group or any of the existing groups with the selected audio output, select the group from the drop down list and click OK. The group is displayed in the List of Audio Output Group Items page. You can only select one group name at a time.

You can define the following parameters on this page:

Group Name	Define a name for the group.
Description	Give a general description about the group.

Figure 37: New audio outputs group

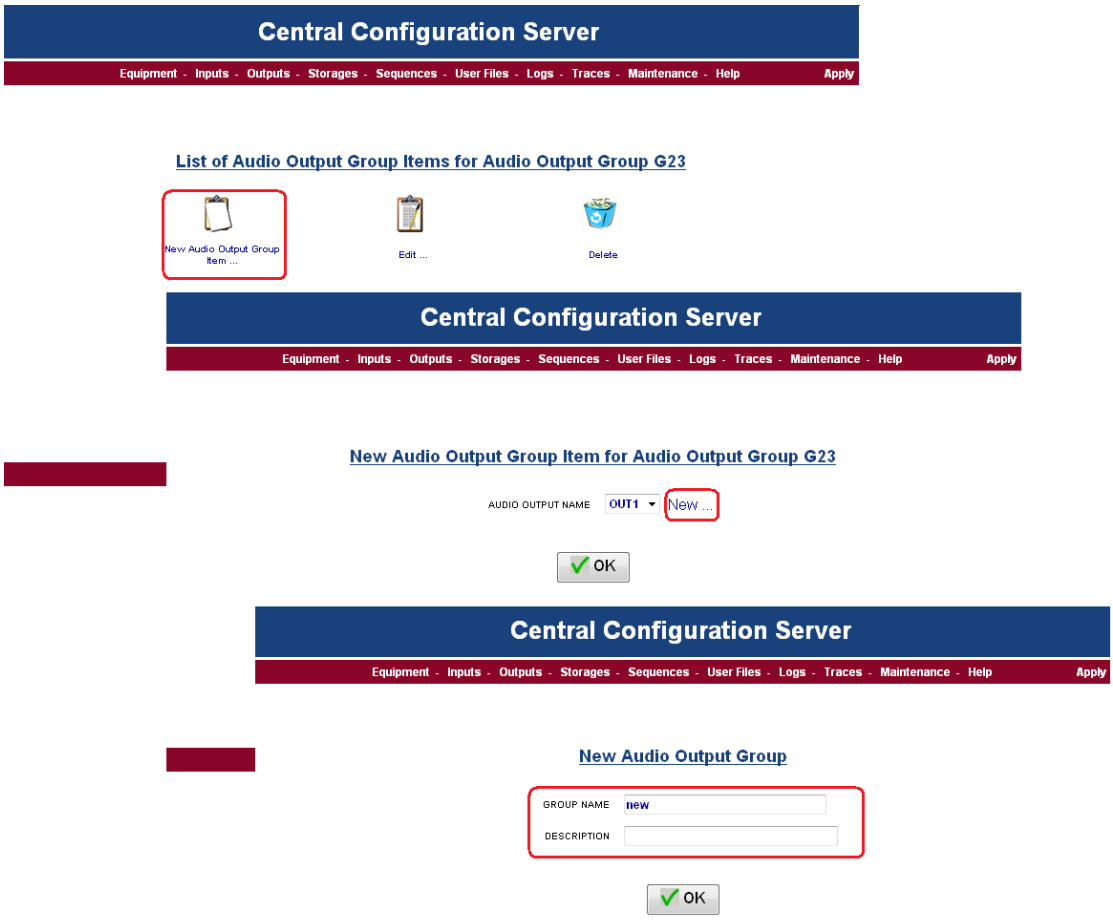
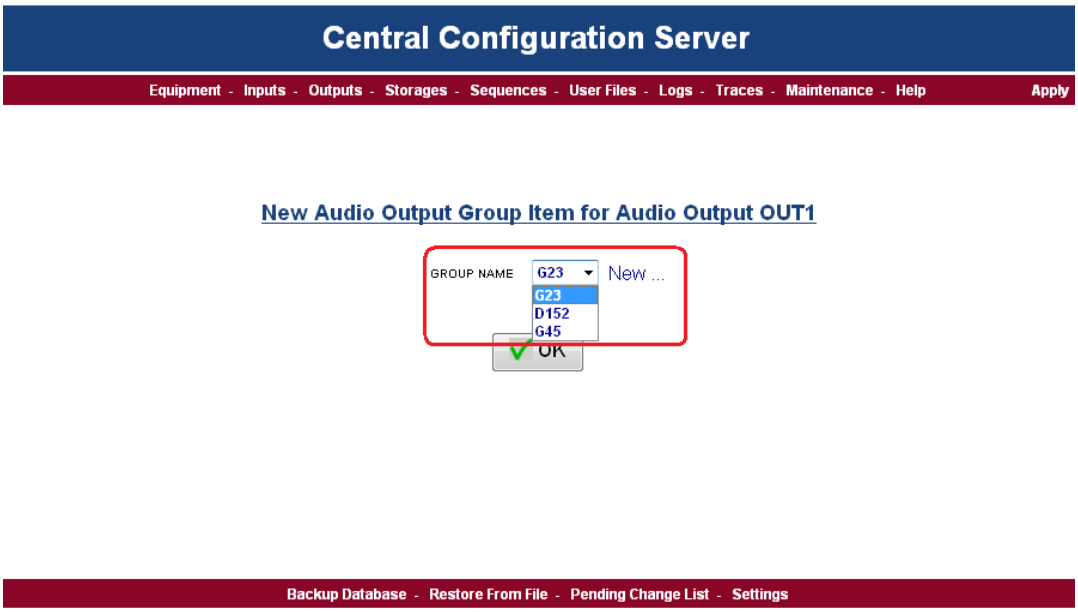

Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help Apply
List of Audio Output Group Items for Audio Output Group G23
New Audio Output Group Item ...
Edit ...
Delete
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help Apply
New Audio Output Group Item for Audio Output Group G23
AUDIO OUTPUT NAME
OUT1
New ...
OK
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help Apply
New Audio Output Group
GROUP NAME
new
DESCRIPTION
OK

Figure 38: New audio output group drop down list


Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
New Audio Output Group Item for Audio Output OUT1
GROUP NAME
G23
New ...
G23
D152
G45
OK
Backup Database - Restore From File - Pending Change List - Settings

Edit audio output group item

To edit an audio output group item, follow these steps:

1. Open the List of Audio Output Group Items as described in “Delete audio output

To delete audio output, follow these steps:

1. Open the List of Audio Outputs page as described in “List audio outputs” on page 41.
2. Select the audio output by checking the corresponding box.
3. Click the Delete icon. The audio output will be deleted from the list.

Audio output group items” on page 44.

2. Select the group name from the displayed list by checking the box in the leftmost column. You have three options:
   - Select an individual group name to edit audio output group item.
   - Select multiple group names to group edit the Audio Output Group Items. You can select all group names in one step by clicking the box in the header section.
   - Double click the name of the group in the displayed list to edit the Audio Outputs Group.
3. Click the Edit icon. The Edit Audio Output Group page will open.
4. Edit the parameters as needed and click OK to confirm the changes.

Audio output actions

Audio output actions display a predefined audio source for an audio output. A predefined audio source can be an audio input channel or a file.

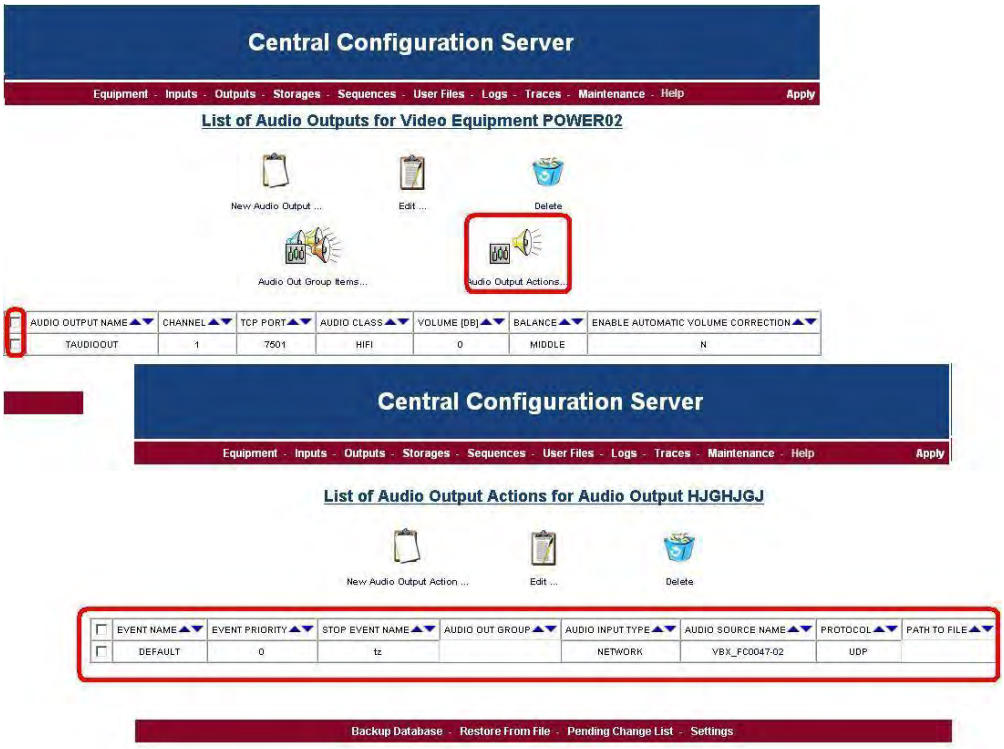
The actions are triggered by events. At startup the output action triggered by the default event is displayed. If there is no such event defined for the audio output channel, nothing will happen.

List audio output actions

To list audio output actions associated with specified video equipment, follow these steps:

1. Open the List of Audio Outputs as described in “List of external data” on page 104.
2. Select the audio output name from the displayed list by checking the box in the leftmost column.
3. Click the Audio Output Actions icon. The List of Audio Output Actions for Audio Output page will open. The list is displayed in tabular form. All the events associated with the selected audio output are displayed in the list. On this page, you can create a new Audio Output Action, Edit, or Delete any displayed Audio Output Action.

Figure 39: List of audio output actions



Add audio output action

On this page, you can add a new audio output action to the displayed list.

To add an audio output action to selected audio output, follow these steps:

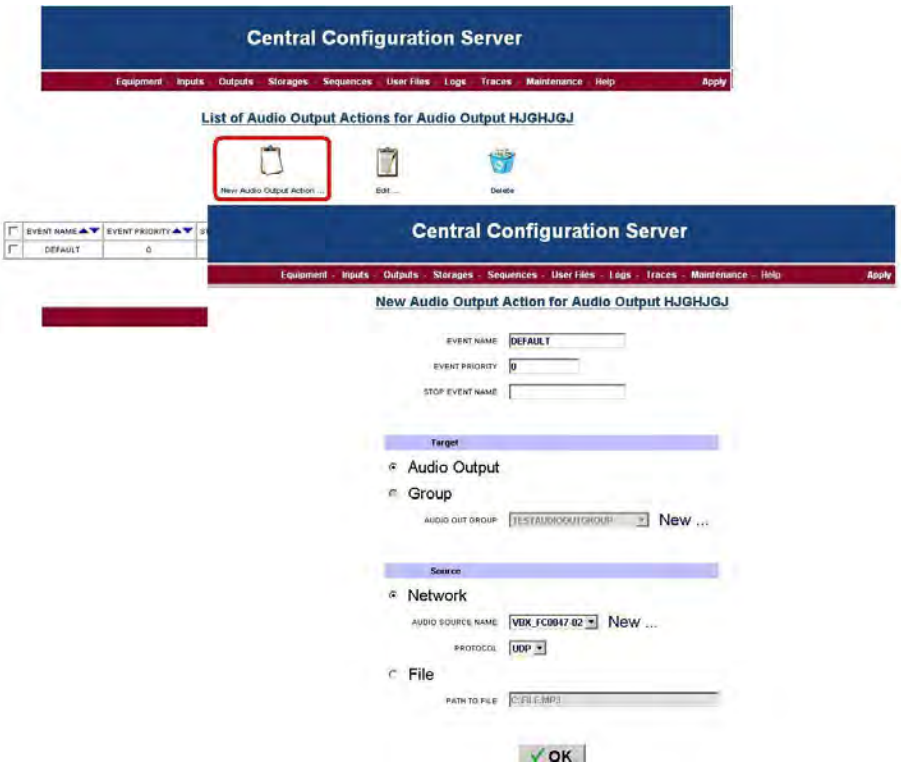
1. Open the List of Audio Output Actions as described in “List audio output actions” above.
2. Click the New Audio Output Actions icon. The New Audio Output Actions for Audio Output page will open.

3. Click New, the New Audio Action for Audio Output page will open.
4. Edit the parameters as needed and click OK to confirm the changes.

You can define the following parameters on this page:

Event Name	Define the event name for the new output action used for triggering the action.
Event Priority	Define the priority; the lower the value the higher the priority. Events with the same priority will be treated in order of occurrence. Priority 0 is reserved for the default event.
Stop Event Name	Define the name of the event that will terminate audio output action.
Target	
Audio Output	Select this option if you want to target the individual audio output.
Group	Select this option if you want to target an output audio group.
Audio Output Group	Select the group from the drop down list. You can also create a new target group by clicking the option New.
Source	
Network	Select this option if the audio source is on the network.
Audio Source Name	You can either select one of the audio sources from the drop down list or create a new audio source by clicking the option New.
Protocol	Select the protocol used (UDP, IPM, and SVC) from the drop down list.
File	Select this radio button if an MP3 file is present in the video equipment.
Path to File	Local path to the file.

Figure 40: New audio output action



Edit audio output action

To edit audio output action, follow these steps:

1. Open the List of Audio Output Actions as described in “List audio output actions” on page 48.
2. Select the audio output action from the displayed list by checking the box in the leftmost column. You have two options:
   - Select an individual audio output action to edit.
   - Select multiple audio output actions to group edit. You can select all audio output actions in one step by clicking the box in the header section.
3. Click the Edit or Group Edit icon depending on the selection you have made on the list. The Edit Audio Output Actions page will open.
4. Edit the settings as needed and click OK to confirm the changes.

Event managers

For the events management to work, at least one event manager must be defined for a site. An event manager handles internal and external events triggered from any device.

Note: Only one event manager per device can be defined.

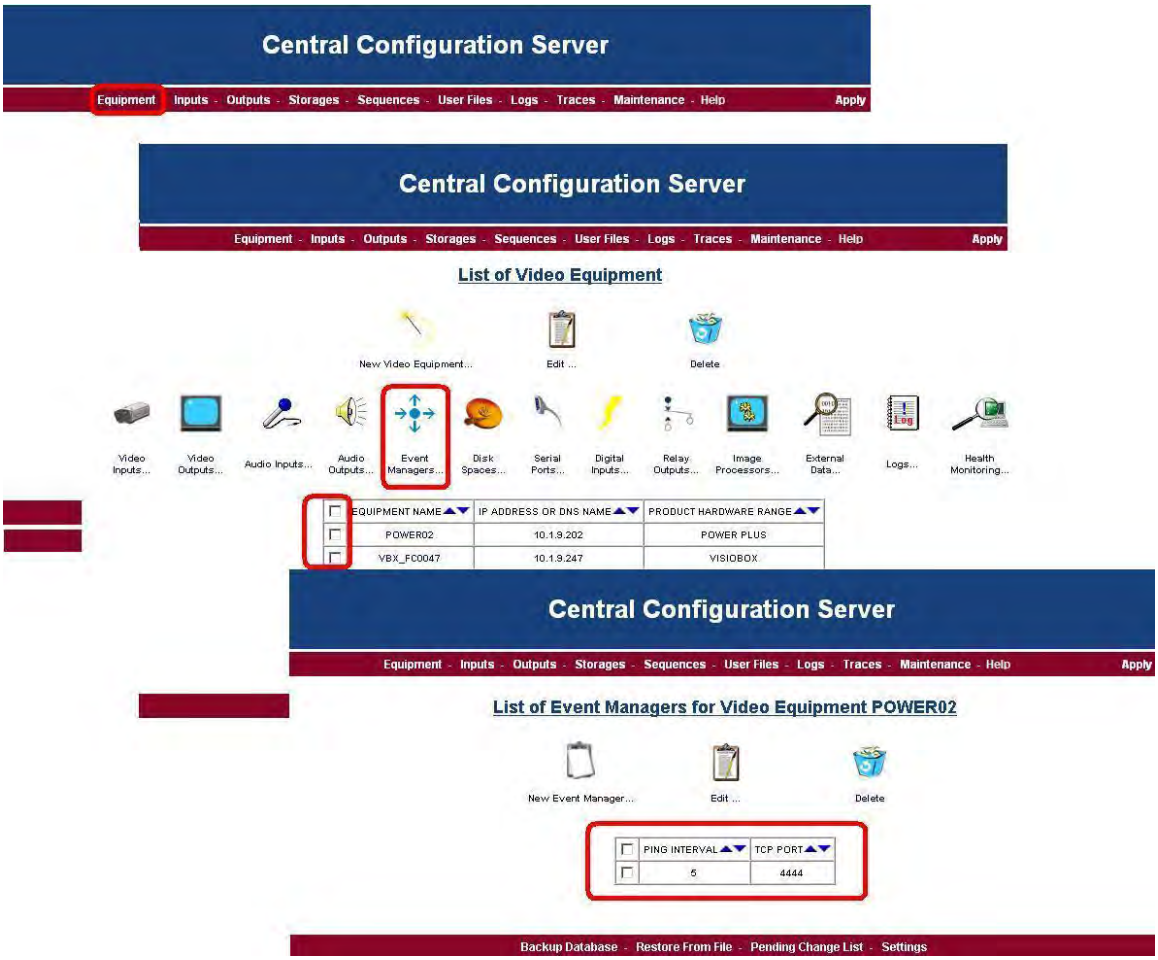
List event managers

To list event managers, follow these steps:

1. Open the List of Video Equipment as described in “List video equipment” on page 25.
2. Select the video equipment, to display the list of event managers associated with it by checking the box in the leftmost column of the displayed list.
3. Click the Event Manager icon. The List of Event Managers for Video Equipment page will open.

The event manager definitions for the selected video equipment are displayed on this page.

Figure 41: Event manager



Add event manager

Any video equipment on the site can host an event manager.

To add an event manager, follow these steps:

1. Open the List of Video Equipment as described in “List video equipment” on page 25.
2. Select the equipment, for which you want to define an event manager, by checking the box in the leftmost column of the displayed list.
3. Click the Event Manager icon. The List of Event Managers for Video Equipment page will open.
4. Click the New Event Manager icon. The New Event Managers for Video Equipment page will open.
5. Edit the parameters as needed and click OK to confirm the changes.

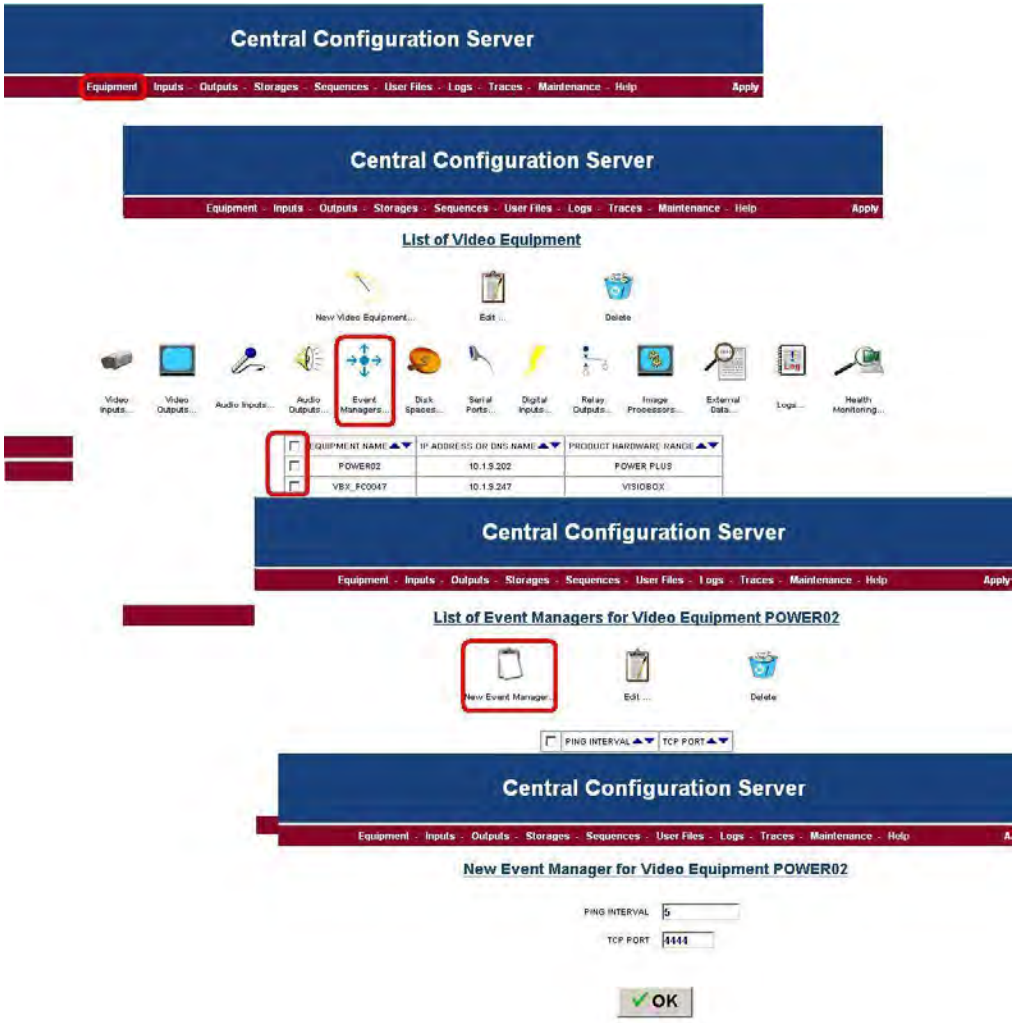
The event manager will now appear in the List of Event Managers.

Note: The created event manager will receive a TCP port number, with a value 4444 as default. This is used by the UltraView SDK (Event Manager ActiveX CTRL).

You can define the following parameters on this page:

Ping Interval	Ping interval in seconds at which the connection with event receivers, that is all video equipment on the site, will be checked. (Default value: 5)
TCP Port	TCP port for listening on event clients. (Default value: 4444 and higher)

Figure 42: New event manager



Edit event manager

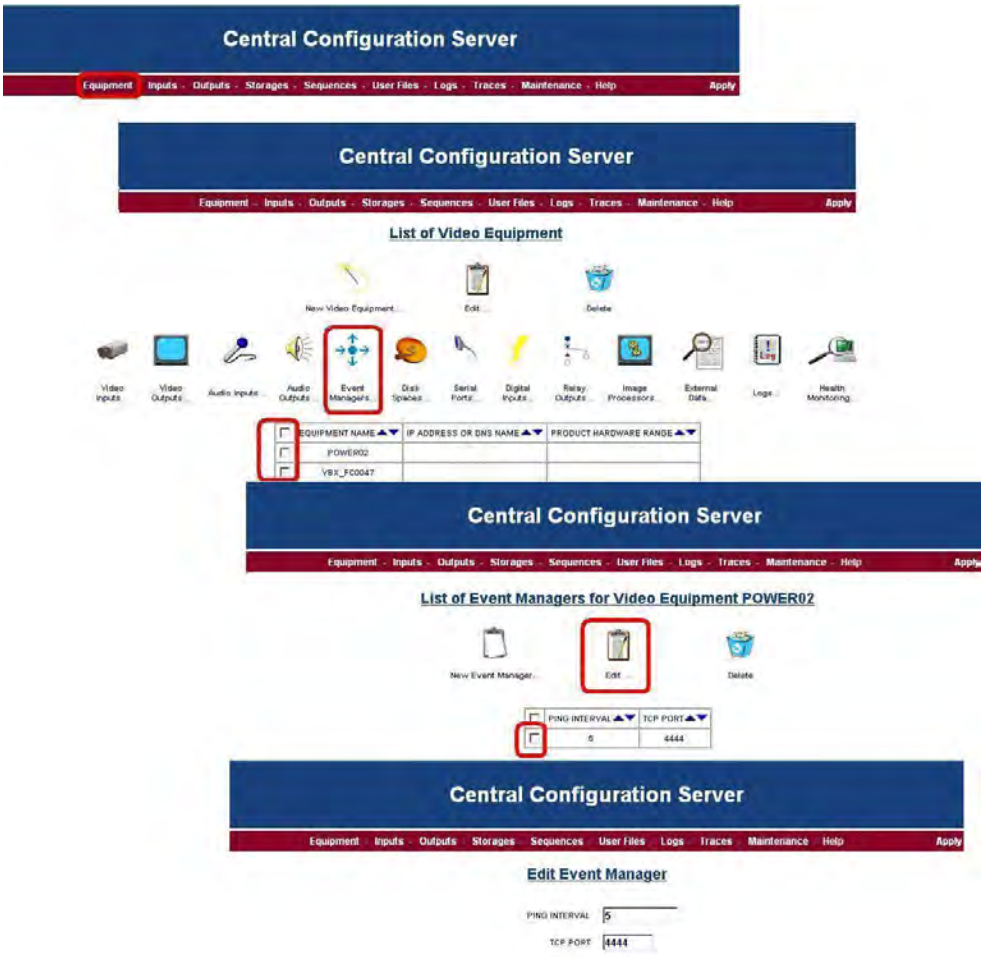
To edit an event manager, follow these steps:

1. Open the List of Video Equipment as described in “List video equipment” on page 25.
2. Select the equipment to edit the event manager associated with it.
3. Click the Event Manager icon. The List of Event Managers for Video Equipment page will open.
4. Select the event manager that you want to edit by checking the box in the leftmost column of the list.
5. Click the Edit Event Managers icon. The Edit Event Managers page will open.

6. Edit the parameters as needed and click OK to confirm the changes.

The identity of the selected event manager is displayed in the page heading.

Figure 43: Edit event manager



Delete event manager

To delete event manager, follow these steps:

1. Open the List of Event Managers page as described in “List event managers” on page 50.
2. Select the event manager by checking the corresponding box.
3. Click the Delete icon. The event manager will be deleted from the list.

Disk spaces

Before defining storages and storage events, disk space that will be allocated for recording video streams needs to be defined.

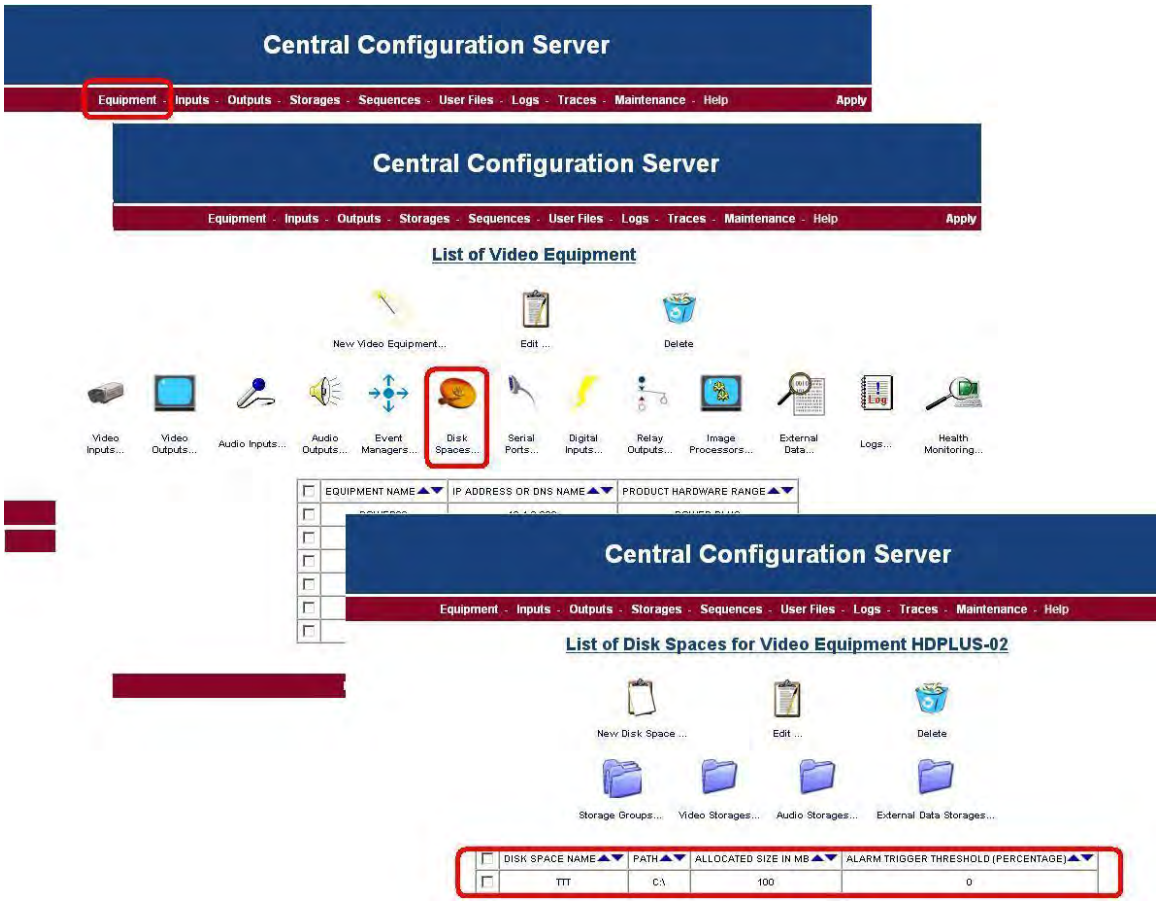
Multiple streams can be stored on the same disk space, but one video stream cannot be stored on a span of disk spaces. For maximum flexibility, we recommend setting one disk space per physical disk partition on the video equipment or attached storage equipment.

List disk spaces

To list disk spaces, follow these steps:

1. Open the List of Video equipment as described in “List video equipment” on page 25.
2. Select the equipment to display the list of disk spaces associated with it by checking the box in the leftmost column of the displayed list.
3. Click the Disk Spaces icon. The List of Disk Spaces for Video Equipment page will open. The disc spaces list is displayed in a tabular form. The disk spaces defined for the current video equipment are displayed.

Figure 44: List of disk spaces



Add disk space

To add disk space, follow these steps:

1. Open the List of Disk Spaces as described in “Disk spaces” on page 53.
2. Click the New Disk Space icon to open the New Disk Space page.
3. Edit the parameters as needed and click OK to confirm the changes.

The newly created disk space is displayed in the List Disk Spaces page.

Note: Verify that the actual disk space on the disk is large enough.

You can define the following parameters on this page:

Disk Space Name	Disk space short name.
Path	Path to the storage space directory.
Upload Directory	This is the directory from where the files are to be uploaded. This works with the AddFile function of the UltraView SDK, which is used to add the file to the directory.
Allocated Size in MB	Amount of disk space allocated. (Default value: 100)
Alarm Trigger Threshold (percentage)	Percentage of disk space that needs to be filled before triggering an alarm (0 meaning deactivated and 100 maximum). (Default value: 0)

Figure 45: New disk space

Central Configuration Server
Equipment Inputs Outputs Storages Sequences User Files Logs Traces Maintenance Help Apply
List of Disk Spaces for Video Equipment HDPLUS-02
New Disk Space
Edit
Delete
Central Configuration Server
Equipment Inputs Outputs Storages Sequences User Files Logs Traces Maintenance Help Apply
New Disk Space for Video Equipment HDPLUS-02
DISK SPACE NAME new
PATH C:\
UPLOAD DIRECTORY
ALLOCATED SIZE IN MB 100
ALARM TRIGGER THRESHOLD (PERCENTAGE) 0
OK
Backup Database Restore From File Pending Change List Settings

Edit disk space

Any disk space that is displayed in the List of Disk Spaces can be edited.

To edit disk space, follow these steps:

1. Open the List of Disk Spaces as described in “List disk spaces” on page 54.
2. Select the disk space from the list by checking the box in the leftmost column.

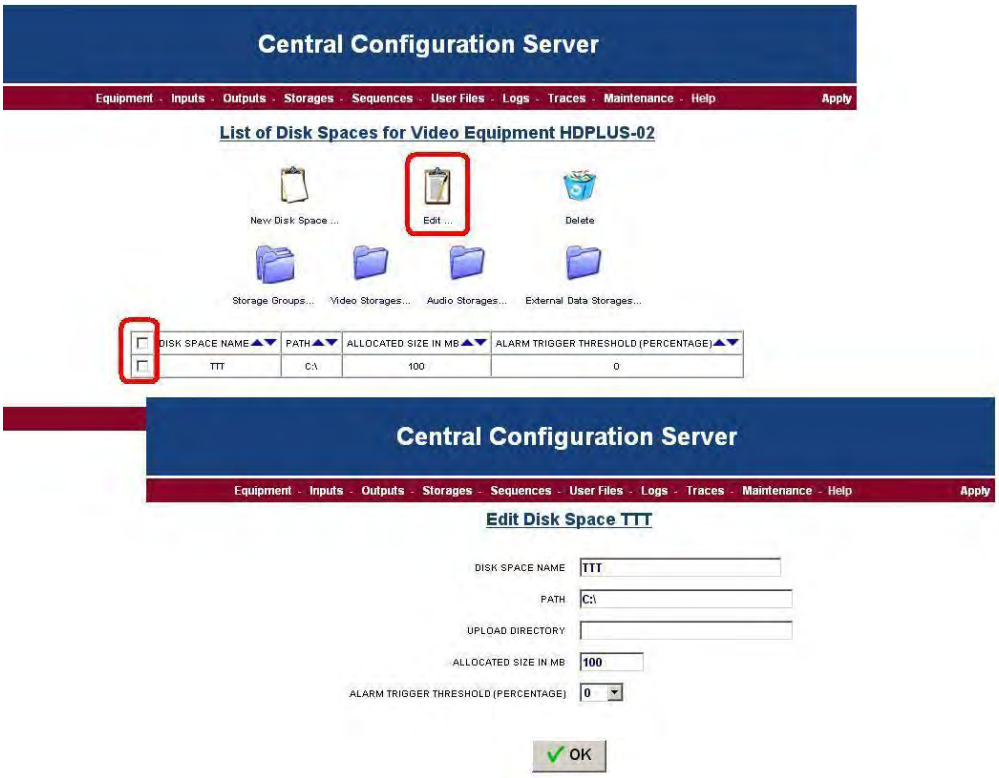
   OR

   Click the name of the disk space; this will open the Edit Disk Space page. By doing this you can skip the next step.
3. If you have checked the box, click the Edit icon. The Edit Disk Space page will open.
4. Edit the parameters as needed and click OK to confirm the changes.

For details about parameters, see “Add disk space” on page 54.

Note: You can also group edit all the storage spaces by checking the box in the heading section. In this case, you will define the disk size for all the storages in one step.

Figure 46: Edit disk space



Delete disk space

To delete disk space, follow these steps:

1. Open the List of Disk Spaces page as described in “List disk spaces” on page 54.
2. Select the disk space by checking the corresponding box.
3. Click the Delete icon. The disk space will be deleted from the list.

Storage groups

Storages groups share disk space between several storages on events. It is necessary to define a maximum storage space for each storage group.

Storage grouping is designed to improve the use of disk space by grouping several storages on event in the same space, with one maximum space for the group.

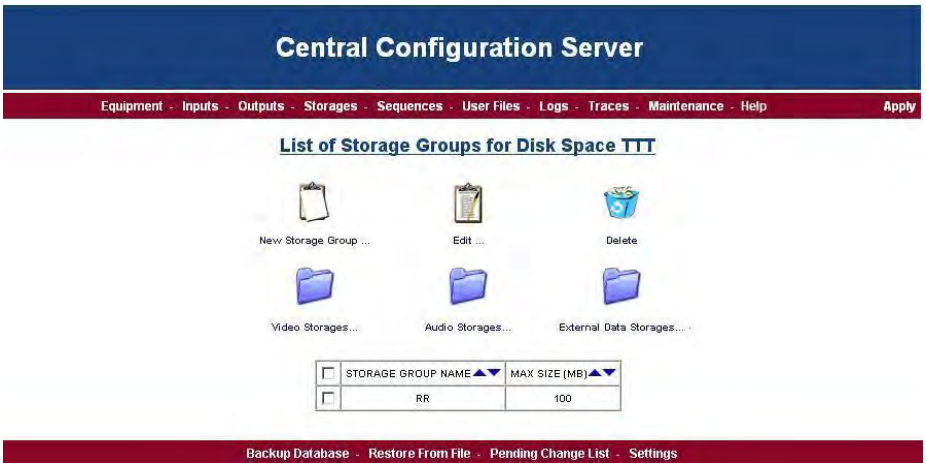
Note: Storage and a storage group must be defined on the same disk space. A storage group can only apply to video, audio, or external data separately.

List storage groups

To list all storage groups associated with selected video disk space, follow these steps:

1. Open the List of Disk Spaces as described in “List disk spaces” on page 54.
2. Select the disk space name from the displayed list by checking the box in the leftmost column.
3. Click the Storage Groups icon. The List of Storage Groups for Disk Space page will open. The list is displayed in tabular form. All the groups associated with the selected disk space are displayed in the list.

Figure 47: List of storage group for disk space


Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
List of Storage Groups for Disk Space TTT
New Storage Group ...
Edit ...
Delete
Video Storages...
Audio Storages...
External Data Storages...
STORAGE GROUP NAME
MAX SIZE (MB)
RR
100
Backup Database - Restore From File - Pending Change List - Settings

Add storage group

You can add a new storage group to the displayed list and later assign the selected disk space to this newly formed group.

To add a storage group, follow these steps:

1. Open the List of Storage Groups for Disk Space as described in “List storage groups” above.
2. Click the New Storage Group icon. The New Storage Group for Disk Space page will open.
3. Edit the parameters as needed and click OK to confirm the changes.

The newly created group will become part of the Storage Group Name list. You may not be able to see the newly formed group immediately if some groups already exist.

You can define the following parameters on this page:

Storage Group Name	Define a name for the storage group.
Max Size (MB)	Specify the maximum size of the group. (Default value: 100)

Figure 48: New storage group

Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
New Storage Group for Disk Space TTT
STORAGE GROUP NAME
new
MAX SIZE (MB)
100
OK
Backup Database - Restore From File - Pending Change List - Settings

Edit storage group

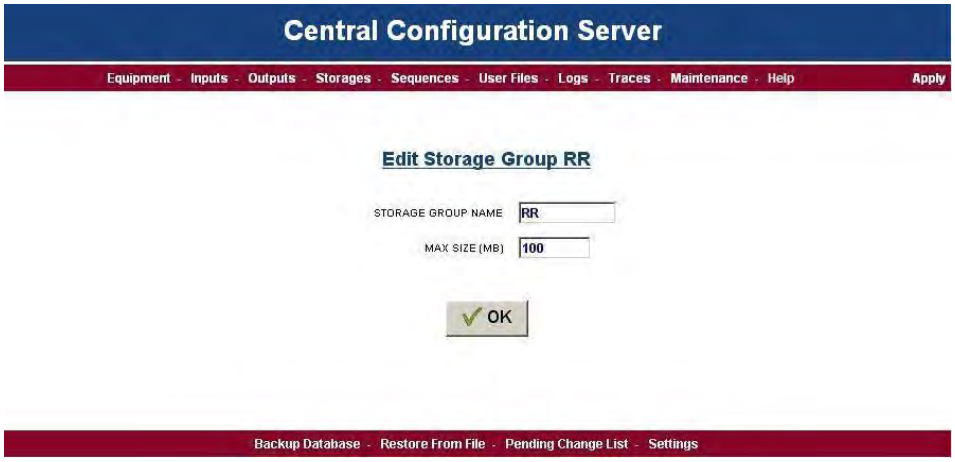
To edit a storage group, follow these steps:

1. Open the List of Storage Groups for Disk Space as described in “List storage groups” on page 57.
2. Select the storage group name from the displayed list by checking the box in the leftmost column. You have three possibilities:
   - Select an individual storage group name to edit a storage group.
   - Select multiple storage group names to group edit the Storage groups. You can select all group names in one step by clicking the box in the header section.
   - Double click the name of the group in the displayed list to edit the Storage Group.
3. Click the Edit icon. The Edit Storage Group page will open.

Note: You don‟t need this step if you have double clicked the group name from the displayed list.

4. Edit the settings as needed and click OK to confirm the changes.

Figure 49: Edit storage group


Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
Edit Storage Group RR
STORAGE GROUP NAME
RR
MAX SIZE (MB)
100
OK
Backup Database - Restore From File - Pending Change List - Settings

Video storages

See “List storages” on page 137.

External data storages

List external data storages

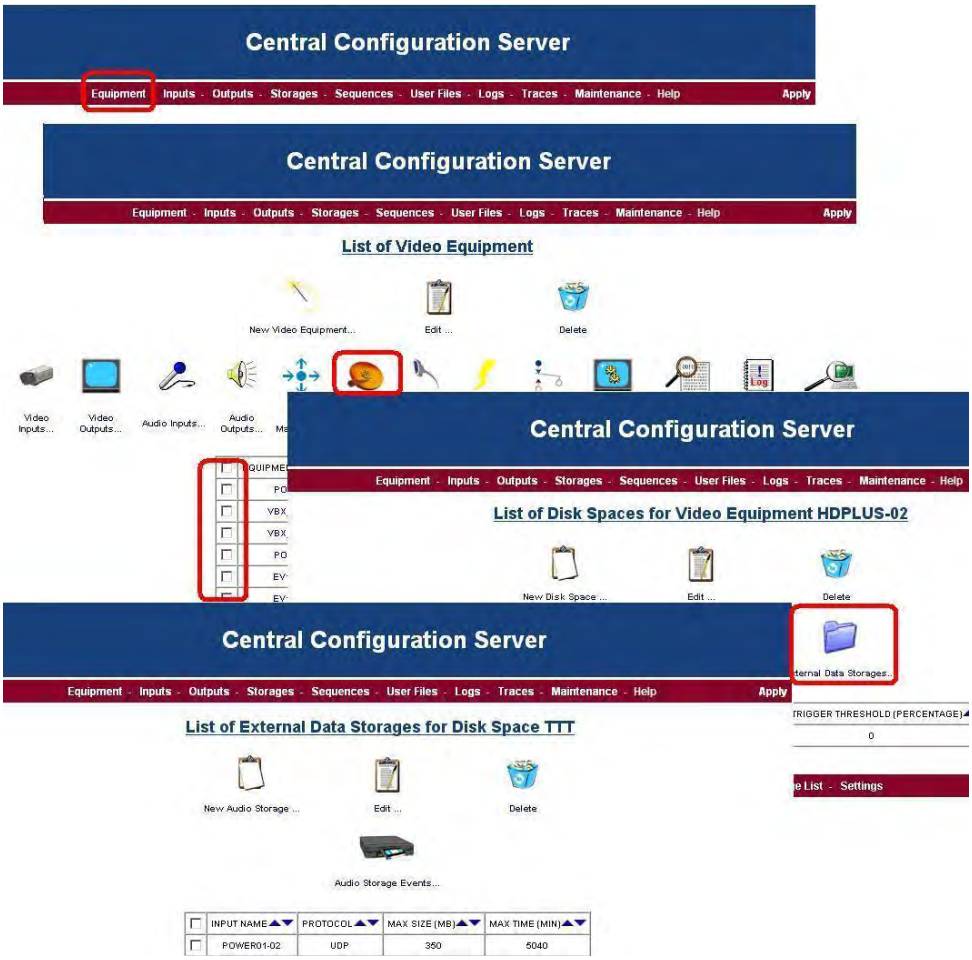
To list external data storages for selected video equipment, follow these steps:

1. Open the List of Disk Spaces for video equipment as described in “List disk spaces” on page 54.
2. Select a disk space name from the displayed list by checking the corresponding box in the leftmost column.
3. Click External Data Storages icon to open the List of External Data Storages for Disk Space page. The list with all the external data storages for the selected disk space is displayed.

On this page, all storage definitions for the site are displayed.

Disk Space	Shows the name of the disk on which the External Data is to be recorded.
External Data	Shows the name of the external data.
Protocol	Shows the network protocol used. For local storage, select UDP. Select UDP or IPM for IP network. (Default value: UDP)
Fields to skip	The Skip parameter specifies the number of images to be skipped during the recording of the video stream. For instance, Skip = 4 means that one image out of five will be recorded. (Default value: 0)
Max Size	Maximum storage space in MB that this recording will use. (Default value: 100)
Max Time	Maximum time that record will be stored (in minutes). Older External Data time will be deleted by the running storage. (Default value: 1440)

Figure 50: List of external data storages



Add external data storage

To add external data storage, follow these steps:

1. Display the List of External Data Storages as described in the section “List external data storages” on page 59.
2. Click the New External Data Storage icon. The New External Data Storage for Disk Space page will open.

You can define the following parameters on this page:

Input Name	If the external data names are already defined, you can select one from the drop down list. If the external data names are not defined or if the user wants to define a new external data name, this can be done by clicking New. Clicking New will open the New External Data Storage for Disk Space page.
Protocol	Shows the network protocol used. For local storage, select UDP. Select UDP or IPM for IP network.
Fields to Skip	The Skip parameter specifies the number of images to be skipped during the recording of the video stream. For example, Skip = 4 means that one image out of five will be recorded. fps to store = fps to send ÷ (skip + 1) Skip = (fps to send ÷ fps to store) - 1
Max Size	Maximum storage space (in MB) that this recording will use.

Max Time	Maximum time that record will be stored (in minutes). Older external data time will be deleted by the running storage.
Weekly Schedule	Clicking the gray Weekly Storage button will expand the weekly schedule, where weekly time intervals, not to be recorded, can be specified.
Storage Group	Assign storage to a storage group.

Figure 51: New external data storage

Edit external data storage

To edit external data storage, follow these steps:

1. Display the List of External Data Storages as described in the section “List external data storages” on page 59.
2. Select the external data storage from the displayed list by checking the box in the leftmost column

   OR

   Select all the external data storages by checking the box in the heading section to group edit the all the storages in one step.

Note: Clicking Input Name from the displayed list will open the Edit External Data page.

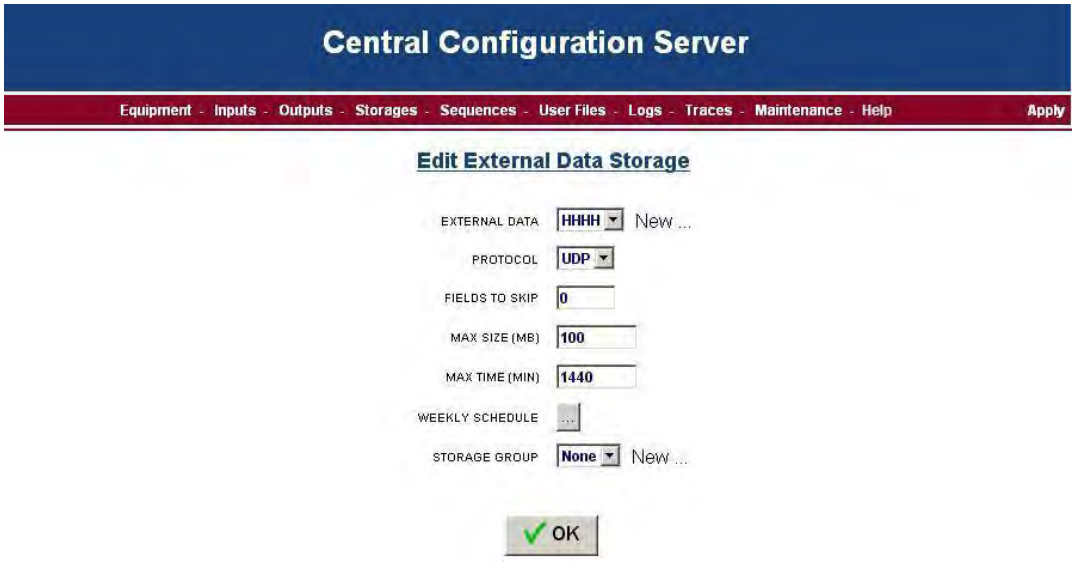
3. Click the Edit icon. The Edit External Data Storage page will open.
4. Edit the parameters as needed and click OK to confirm the changes.

The changes will be reflected in the List of External Data Storages for Disk Space page.

For information about parameters, see section “Add audio storage” on page 66.

Note: You can edit all the external data storages in one step. Select all the external data storages by checking the box in the heading section to group edit the all the storages in one step.

Figure 52: Edit external data storage



External data storage actions

The External Data Storage Actions trigger is launched (at the start of the event) by the ActiveX controls in the client application. The event names used by the application must correspond with the ones defined on this page.

Events management is only available, if an event manager has been defined for the site. See “Event managers” on page 50.

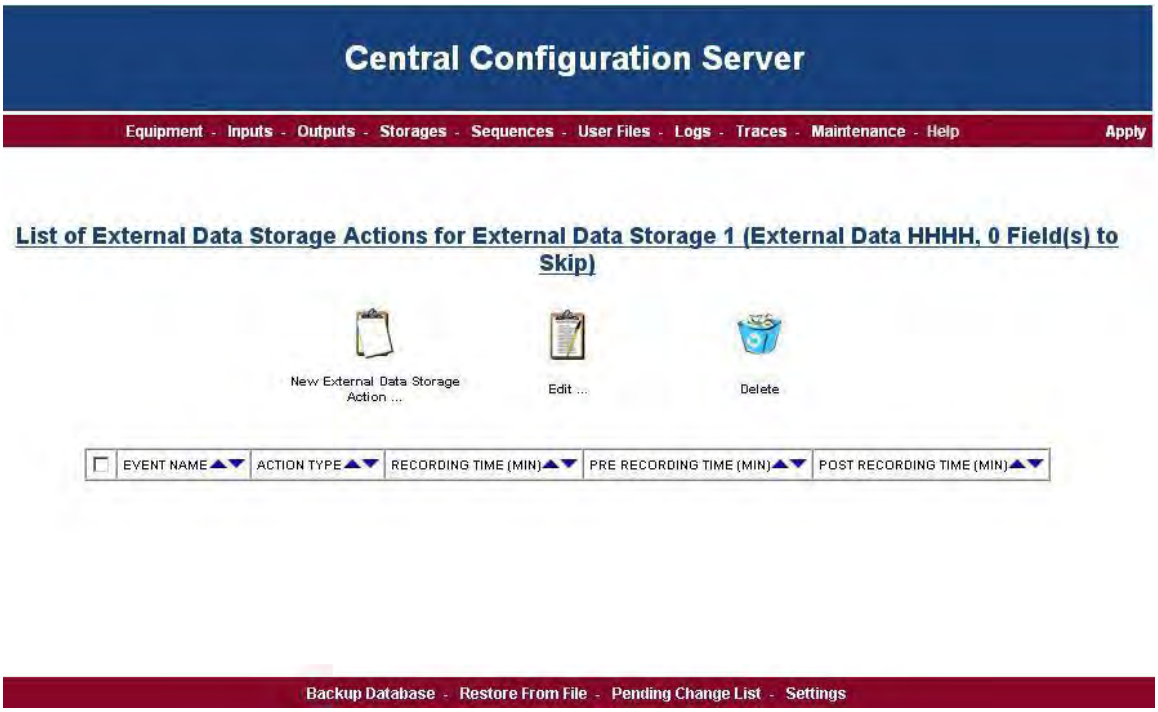
List of external data storage actions

To list external data storage actions, follow these steps:

1. Open the List of External Data Storages for Disk Space as described in the section “List external data storages” on page 59.
2. Select the event name from the displayed list by checking the corresponding box in the leftmost column.
3. Click the External Data Storage Actions icon to open the List of External Data Storage Actions for External Data Storage page. The automatically assigned storage name is displayed as the title of the page.

This page lists the external data storage actions that are associated with the external data event.

Figure 53: List of external data storage actions


Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
List of External Data Storage Actions for External Data Storage 1 (External Data HHHH, 0 Field(s) to Skip)
New External Data Storage Action ...
Edit ...
Delete
EVENT NAME
ACTION TYPE
RECORDING TIME (MIN)
PRE RECORDING TIME (MIN)
POST RECORDING TIME (MIN)
Backup Database - Restore From File - Pending Change List - Settings

Add external data storage action

To add an external data storage action, follow these steps:

1. Open the List of External Data Storage Actions as described in the section “List audio storage events” on page 69.
2. Click the New External Data Storage Action icon to open the New External Data Storage Action for External Data Storage page. The name of the selected storage will be automatically displayed in the title.
3. Edit the parameters as needed and click OK to confirm the changes.

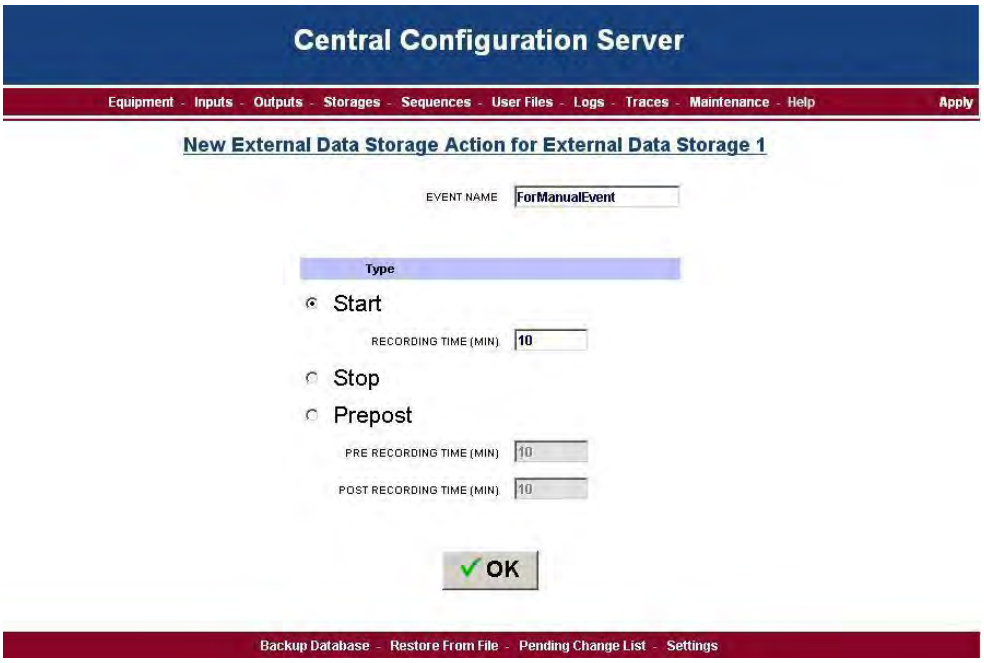
The new External Data Storage Action should now appear in the List of External Data Storage Actions for the selected External Data Storage.

You can define the following parameters on this page:

Event Name	Event name that triggers this recording action.
Type	Type of action start, stop, or prepost.
Start	Select this radio button to define the recording time. **Recording time:** The recording time duration (in minutes) after the event has started.
Stop	Select this radio button to stop the recording, once the defined event (stop event) is triggered.

Prepost	Select this radio button to define the pre-recording time and the post-recording time (in minutes). **Pre-recording and Post-recording time:** Part of the storage will be marked as alarm storage (red part of the video on the timeline) according to the configured pre and post recording time values and can be viewed later, by the operator, as video associated with a particular event. Pre-recording time is configured time before an event and post-recording time is configured time after an event. **Note:** It is not possible to cut the audio or the video files according to the time defined. Therefore, the complete slice of the audio and the video files falling within the defined time region is recorded. So usually, you will find that it has taken more than the defined time period to record the audio or the video files.

Figure 54: New external data storage action for external data storage



Edit external data storage action

To edit an external data storage action, follow these steps:

1. Open the List of External Data Storage Actions as described in the section “List audio storage events” on page 69.
2. Select an external data action from the displayed list by checking the corresponding box in the leftmost column.
3. Click the Edit icon. The Edit External Data Storage Action page will open.

Note: You can edit several external data storage actions at the same time. To do this, select all the external data events by checking the box in the header section, and clicking the Edit icon. The Group Edit External Data Storage Actions page is displayed.

4. Edit the parameters as needed and click OK to confirm the changes.

For information about parameters, see “Add audio storage event” on page 69.

Audio storages

On this page, you can configure the audio storage policies (recording functions).

There are two possible ways to define or to view storages:

- List of Audio Storages
- List of Disk Spaces

Note: To be able to define audio storages and audio storage events, at least one disk space must have been configured on the video network site.

Note: Only MP3 encoded audio is supported, so although multiple storages may be defined for the same source, it makes much less sense than hierarchical frame rates video storages.

List audio storages

To display the list of audio storages for the selected video equipment, follow these steps:

1. Open the List of Disk Spaces for Video equipment as described in “List disk spaces” on page 54.
2. Select a disk space name from the displayed list by checking the corresponding box in the leftmost column.
3. Click Audio Storages icon to open the List of Audio Storages for Disk space page. The list with all the audio storages for the selected disk space is displayed.

Note: To see all the audio storages for the selected audio input, edit the URL in the browser.

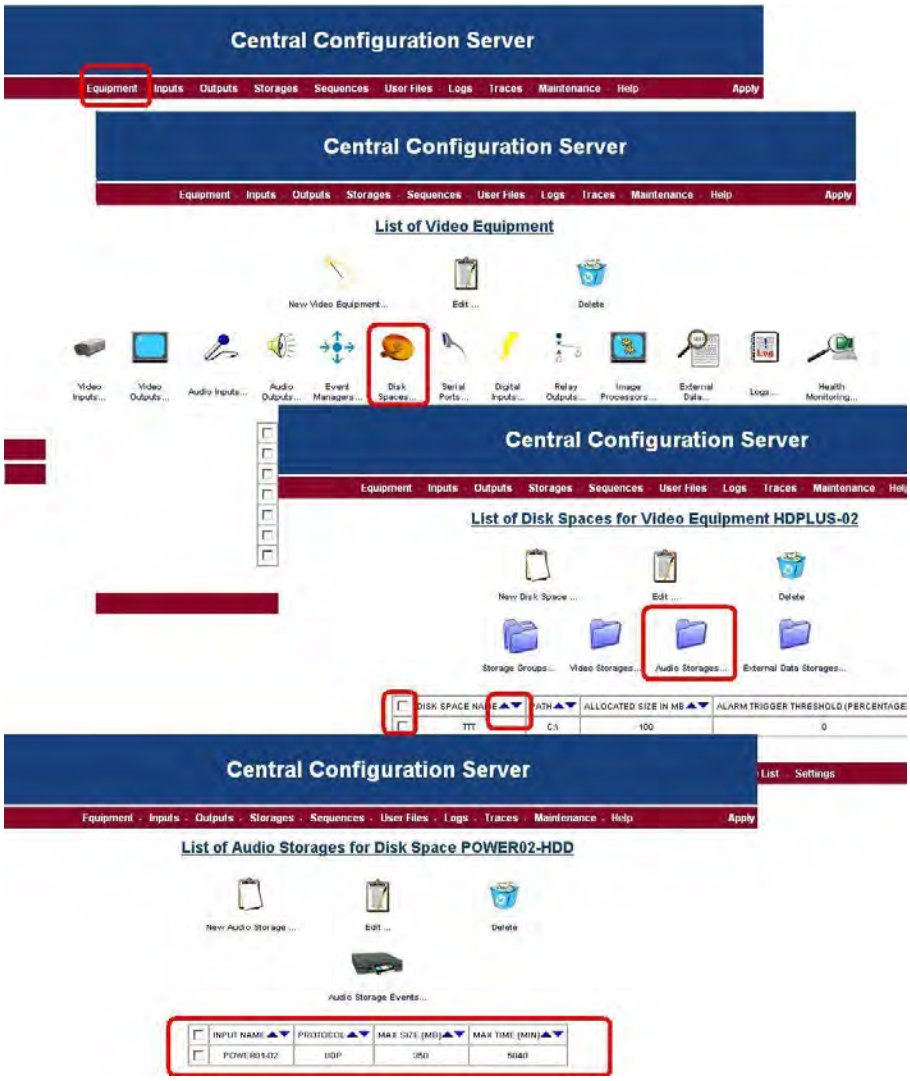
For example if the URL is:

http://10.1.9.200/cfg_list.php?table=audio_storages&X_AUDIO_PORT=GGG&id%5B%5D=GGG, then to display the list of all the audio storages and delete the URL until the word “storages”:
http://10.1.9.200/cfg_list.php?table=audio_storages

On this page, all storage definitions for the site are displayed.

Disk Space	Short name of the disk space.
Input Name	Displays the name of the audio input to be recorded.
Protocol	Displays the network protocol used. For local storage, select UDP. Select UDP or IPM for IP network.
Max Size	Maximum storage space (in MB) that this recording will use.
Max Time	Maximum time that record will be stored (in minutes). Older audio time will be deleted by the running storage.
Storage Group	Assigned storage group for this storage.

Figure 55: List of audio storages



Add audio storage

To add an audio storage for selected video equipment, follow these steps:

1. Open the List of Audio Storages as described in the section “List audio storages” on page 65.
2. Click the New Audio Storage icon. The New Audio Storage for Disk Space page will open.

You can define the following parameters on this page:

Disk Space	Short name of the disk space.
Input Name	If the audio input names are already defined, you can select one of them from the drop down list. If the audio input names are not defined or if you need to define a new audio input name, this can be done by clicking New. Clicking New will open the New Audio Input page. The user can define all the parameters as described in “Add audio input” on page 38 and clicking ok will display the newly created audio input.
Network Interface	The interface to be used for receiving audio stream.

Protocol	Shows the network protocol used. For local storage, select UDP. Select UDP or IPM for IP network.
Max Size	Maximum storage space (in MB) that this recording will use.
Max Time	Maximum time that record will be stored (in minutes). Older audio time will be deleted by the running storage.
Weekly Schedule	Clicking the gray Weekly Storage button will expand the weekly schedule, where weekly time intervals, not to be recorded, can be specified.
Storage Group	Assign storage to a storage group.

Figure 56: New audio storage

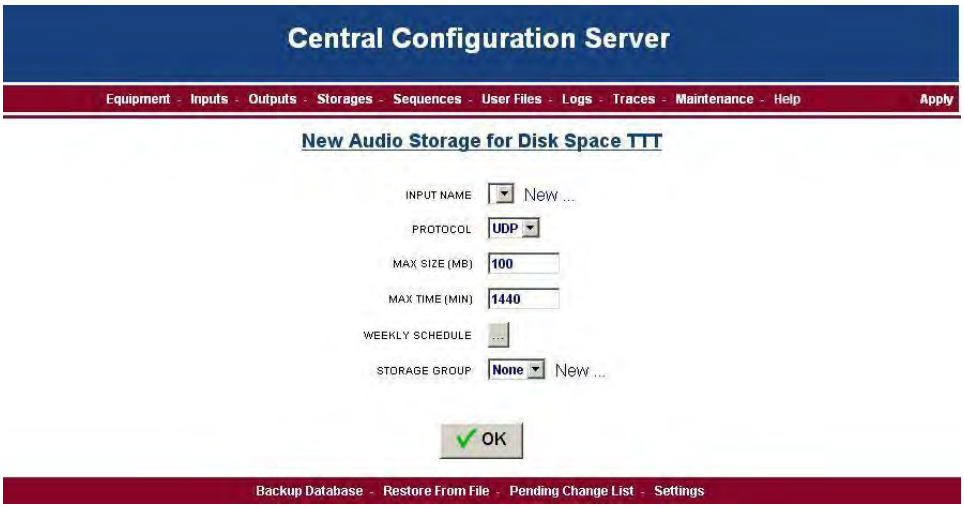
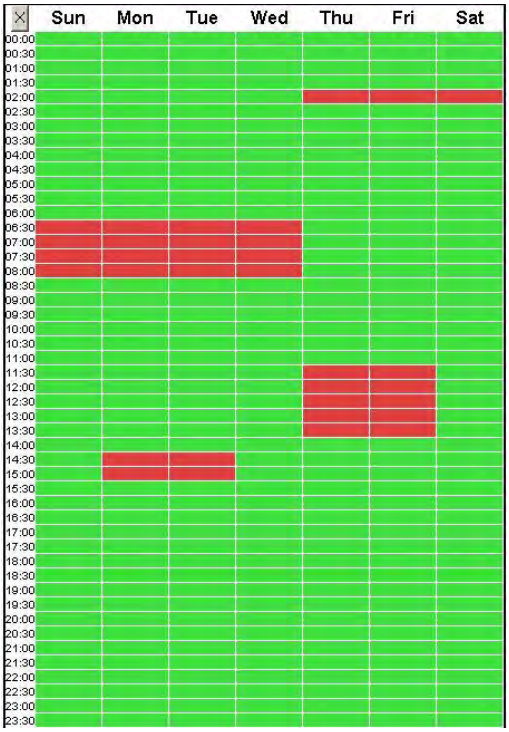


Figure 57: Weekly schedule expanded



Edit audio storage

To edit an audio storage for selected video equipment, follow these steps:

1. Open the List of Audio Storages as described in section “List audio storages” on page 65.
2. Select the audio storage from the displayed list by checking the box in the leftmost column.

   OR

   Select all the audio storages by checking the box in the heading section to group edit the all the storages in one step.

Note: Clicking Input Name from the displayed list will open the Edit Audio Input page.

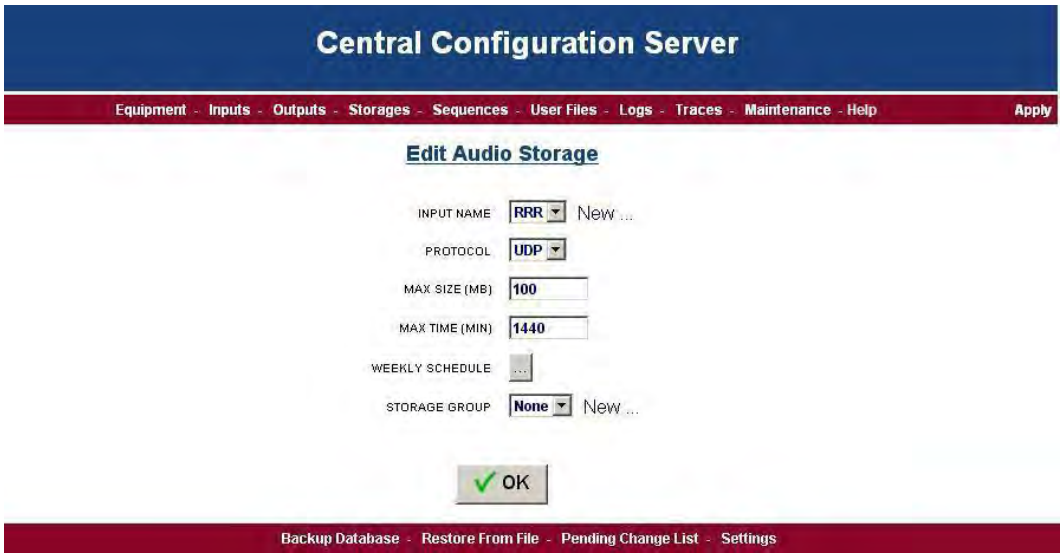
3. Click the Edit icon. The Edit Audio Storage page will open.
4. Edit the parameters as needed and click OK to confirm the changes.

The changes will be reflected in the List of Audio Storages for Audio Input page.

Note: You can edit all the audio storages in one step. Select all the audio storages by checking the box in the heading section to group edit the all the storages in one step.

For information about parameters, see section “Add audio storage” on page 66.

Figure 58: Edit audio storage



Audio storage events

The Audio Storage Events trigger is launched by the ActiveX controls (at the start of the events) in the client application. The event names used by the application must correspond with the ones defined on this page.

Events management is only available, if an event manager has been defined for your site. See “Event managers” on page 50.

List audio storage events

To list audio storage events, follow these steps:

1. Open the List of Audio Storages for Disk Space as described in section “List audio storages” on page 65.
2. Select the input name from the displayed list by checking the corresponding box in the leftmost column.
3. Click the Audio Storage Events icon to open the List of Audio Storage Events for Audio Storage page. The automatically assigned storage name is displayed as the title of the page.

This page lists the audio storage events that are associated with the audio inputs.

For information about parameters, see “Add audio storage event” below”.

Figure 59: List of audio storage events

Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
List of Audio Storage Events for Audio Storage 1 (Audio Input POWER01-02)
New Audio Storage Event ...
Edit ...
Delete
EVENT NAME
ACTION TYPE
RECORDING TIME (MIN)
PRE RECORDING TIME (MIN)
POST RECORDING TIME (MIN)
ForManual
START
10
Backup Database - Restore From File - Pending Change List - Settings

Add audio storage event

To add a new audio storage event, follow these steps:

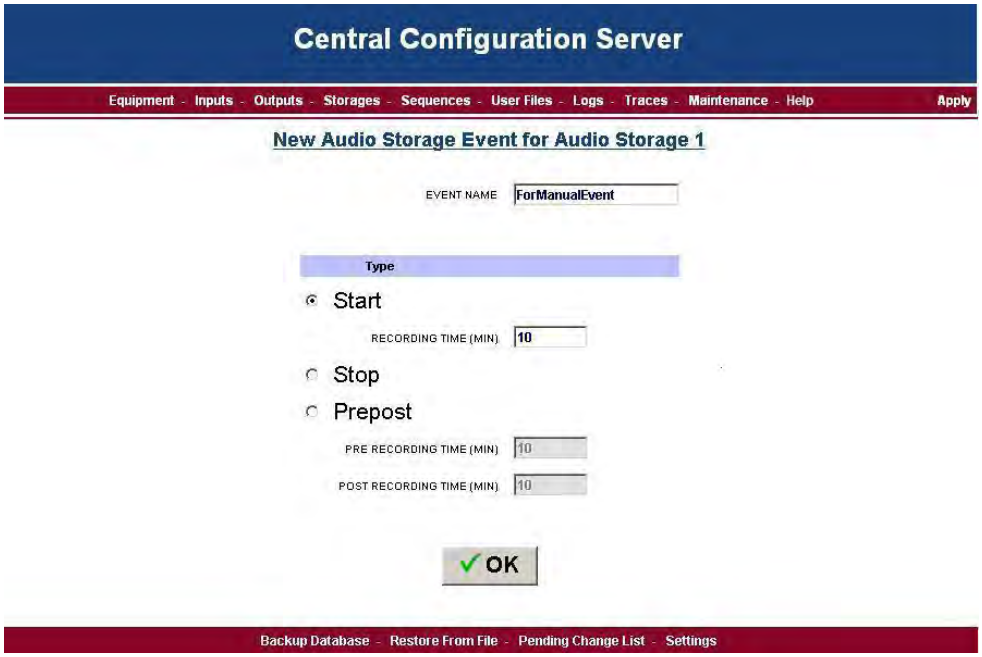
1. Open the List of Audio Storage Events as described in section “List audio storage events” above.
2. Click the New Audio Storage Events icon to open the New Audio Storage Events for Audio Storage page. The name of the selected storage will be automatically displayed in the title.
3. Edit the parameters as needed and OK to confirm the changes.

The new audio storage event is displayed in the List of Audio Storage Events for the selected audio storage.

You can define the following parameters on this page:

Event Name	Event name that triggers this recording action.
Type	Type of action Start, Stop, or Prepost.
Start	Select this radio button to define the recording time. **Recording time:** The recording time duration (in minutes) after the event has started.
Stop	Select this radio button to stop the recording, once the defined event (stop event) is triggered.
Prepost	Select this radio button to define the pre-recording time and the post-recording time (in minutes). **Pre-recording and Post-recording time:** Part of the storage will be marked as alarm storage (red part of the video on the timeline) according to the configured pre and post recording time values and can be viewed later, by the operator, as video associated with a particular event. Pre-recording time is configured time before an event and post-recording time is configured time after an event. **Note:** It is not possible to cut the audio or the video files according to the time defined. Therefore, the complete slice of the audio and the video files falling within the defined time region is recorded. So usually, you will find that it has taken more than the defined time period to record the audio or the video files.

Figure 60: New audio storage event for storage



Edit audio storage event

To edit a new audio storage event, follow these steps:

1. Open the List of Audio Storage Events for Audio Storage as described in the “List audio storage events” on page 69.
2. Select an audio event from the displayed list, by checking the corresponding box in the leftmost column.
3. Click the Edit icon. Edit Audio Storage Event page will open.

Note: You can edit several audio storage events at the same time. To do this, select all the audio events by checking the box in the header section, and clicking the Edit icon. The Group Edit Audio Storage Events page will open.

4. Edit the parameters as needed and click OK to confirm the changes.

For information about parameters, see “Add audio storage event” on page 69.

Serial ports

On this page, you can add and configure serial communication ports, for connecting telemetry devices, such as PTZ cameras, control keyboards, etc.

List serial ports

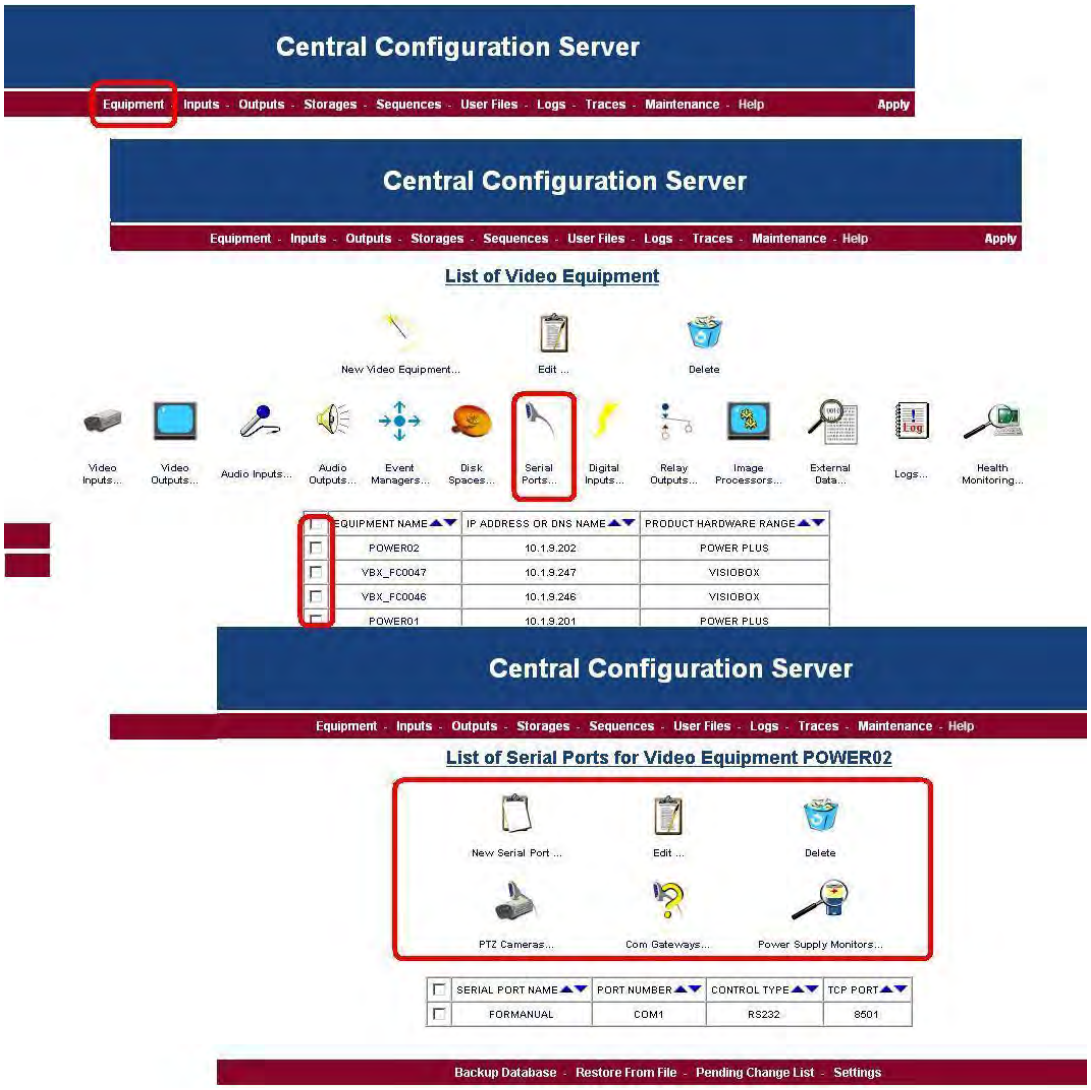
To list serial ports, follow these steps:

1. Open the List of Video equipment as described in “List video equipment” on page 25.
2. Select the video equipment by checking the box in the leftmost column of the displayed list to display the List of Serial Ports associated with it.
3. Click the Serial Ports icon. The List of Serial Port for Video Equipment page will open. The serial port list is displayed in a tabular form.

All serial communication ports defined for the selected video equipment are displayed.

For information about parameters, see “Add serial port” on page 72.

Figure 61: List of serial ports


Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help Apply
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help Apply
List of Video Equipment
New Video Equipment...
Edit ...
Delete
Video Inputs...
Video Outputs...
Audio Inputs...
Audio Outputs...
Event Managers...
Disk Spaces...
Serial Ports...
Digital Inputs...
Relay Outputs...
Image Processors...
External Data...
Logs...
Health Monitoring...
EQUIPMENT NAME
IP ADDRESS OR DNS NAME
PRODUCT HARDWARE RANGE
POWER02 10.1.9.202 POWER PLUS
VBX_FC0047 10.1.9.247 VISIOBOX
VBX_FC0046 10.1.9.246 VISIOBOX
POWER01 10.1.9.201 POWER PLUS
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
List of Serial Ports for Video Equipment POWER02
New Serial Port ...
Edit ...
Delete
PTZ Cameras...
Com Gateways...
Power Supply Monitors...
SERIAL PORT NAME
PORT NUMBER
CONTROL TYPE
TCP PORT
FORMANUAL COM1 RS232 8501
Backup Database - Restore From File - Pending Change List - Settings

Add serial port

To add a serial port, follow these steps:

1. Open the List of Serial Ports as described in “List serial ports” on page 71.
2. Click the New Serial Port icon to open the New Serial port for Video Equipment page.
3. Edit the parameters as needed and click OK to confirm the changes.

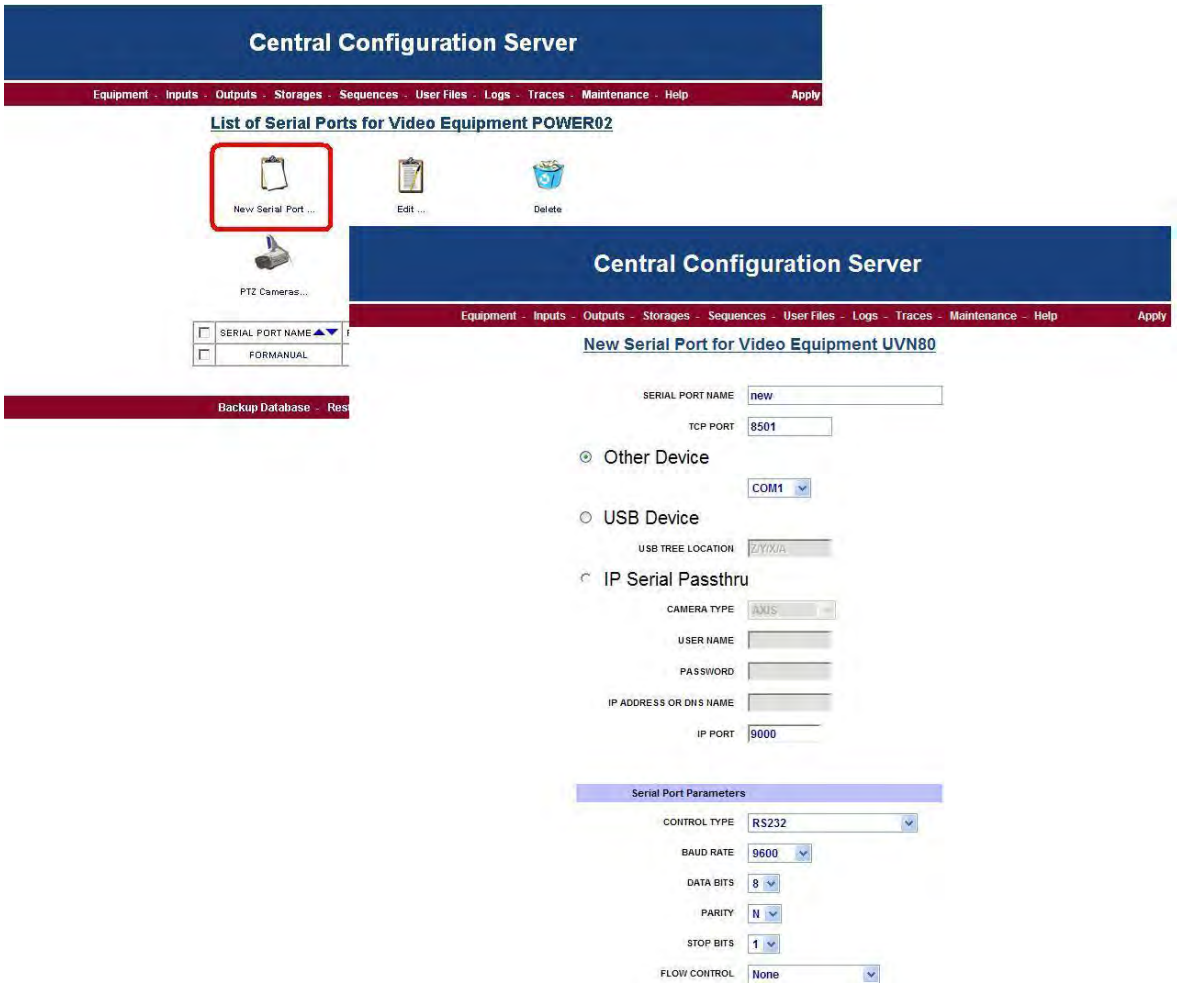
The new serial port should now appear in the List of Serial Ports for the current video equipment.

You can define the following parameters on this page:

Serial Port Name	Unique short name for referencing the port.
TCP Port	Define the TCP port number for the reception of data. (Default value: 8501)
Other Device	Select if there is no USB device or IP camera.

Port Number	Select this option to use the native COM port of the equipment (SUB-D9 interface or UltraView Encoder 10/ UltraView Decoder 10).
USB Device	Select this option to use the built-in USB adapter (Green Phoenix connecter).
USB Tree Location	Make sure you enter the full USB tree as defined in the USB devices of the Health Monitoring section of the equipment.
IP Serial Passthru	Select this option if you have an IP PTZ camera and need to control it through the Ethernet link (no physical link required).
Camera Type	Choose a camera type.
User Name	IP camera administrator username.
Password	IP camera administrator password.
IP address or DNS Name	IP camera IP address or name.
IP Port	Define the camera TCP port number for the reception of data. (Default value: 9000)
Serial Port Parameters	The parameters of a serial port.
Control Type:	Electrical signaling type. Can be RS232, RS422 or RS485 depending on the hardware type.
Baud Rate:	Value in the range from 1200 to 115200 bps. (Default value: 9600)
Data Bits:	7 or 8 bits data packets. (Default value: 8)
Parity	O = Odd, E = Even or .N = no parity bit (Default value: None)
Stop Bits:	0, 1, or 2 stop bits (Default value: 1)
Flow Control	Select the Flow Control option from the drop down list. Flow control compensates for the difference between the rate at which data reaches a device and the rate at which the device processes and transmits. The two common types of flow control are RTS/CTS signaling (a hardware based method, employing an electrical signal) and XON/XOFF (a software-based method using standard ASCII control characters to pause or resume transmission).

Figure 62: New serial port



Edit serial port

Any serial port that is displayed in the List of Serial Ports page can be edited.

To edit a serial port, follow these steps:

1. Open the List of Serial Ports as described in “List serial ports” on page 71.
2. Select the serial port from the displayed list by checking the box in the leftmost column.

   OR

   Click the name of the serial port. This will open the Edit Serial Port page. By doing this you can skip the next step. Clicking the name will open the Edit Serial port page.
3. If you have checked the box, click the Edit icon. The Edit Serial Port page will open.

Note: It is also possible to select and edit several serial ports at the same time, for instance, to set the same baud rate for more than one port. In this case, select the serial ports to edit by checking the corresponding boxes in the leftmost column and click Edit to open the Group Edit Serial Ports page.

4. Edit the parameters as needed and click OK to confirm the changes.

For information about parameters, see “Add serial port” on page 72.

Figure 63: Edit serial port

Delete serial port

To delete a serial port, follow these steps:

1. Open the List of Serial Ports page as described in “List serial ports” on page 71
2. Select the serial port by checking the corresponding box.
3. Click the Delete icon. The serial port will be deleted from the list.

PTZ cameras

PTZ (Pan-Tilt-Zoom) cameras connected to a serial port can be remotely controlled from a client application, using the UltraView SDK (ActiveX API control VWMobCamSvrCtrl2).

List PTZ cameras

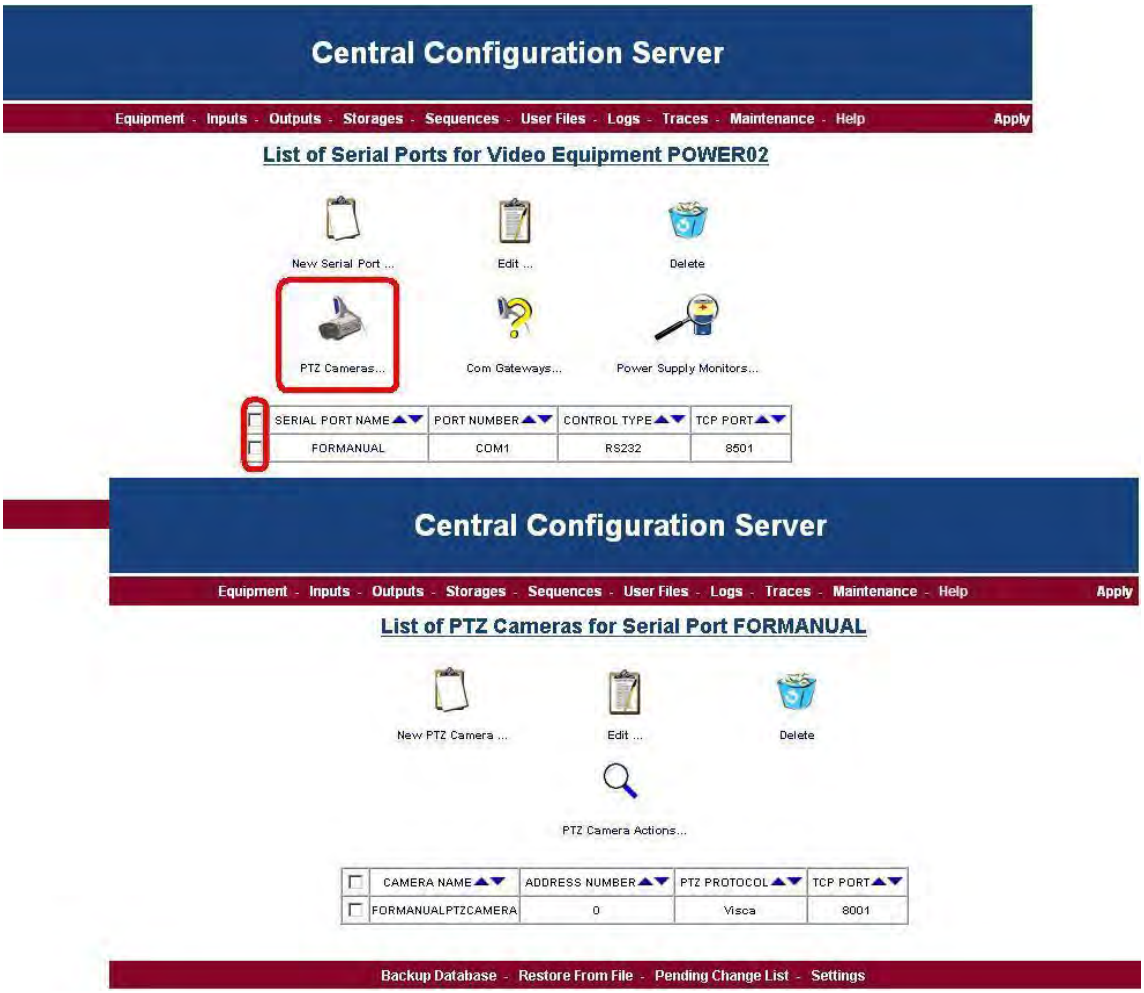
To view a list of PTZ cameras, follow these steps:

1. Open the List of Serial Ports page as described in “List serial ports” on page 71.
2. Select the serial port from the displayed list by checking the box in the leftmost column.
3. Click the PTZ Cameras icon. The List of PTZ Camera for Serial Port page will open.

On this page, the PTZ cameras wired to the currently selected serial port are displayed.

For information about parameters, see “Add PTZ camera” on page 76.

Figure 64: List of PTZ cameras



Add PTZ camera

To add a PTZ camera to selected serial port, follow these steps:

1. Open the List of Serial Ports page as described in “List serial ports” on page 71.
2. Select the serial port from the displayed list, by checking the box in the leftmost column.
3. Click the PTZ Cameras icon. The List of PTZ Cameras for Serial Port page will open.
4. Click the New PTZ Camera icon. The New PTZ Camera for Serial Port page will open.
5. Edit the parameters as needed and click OK to confirm the changes.

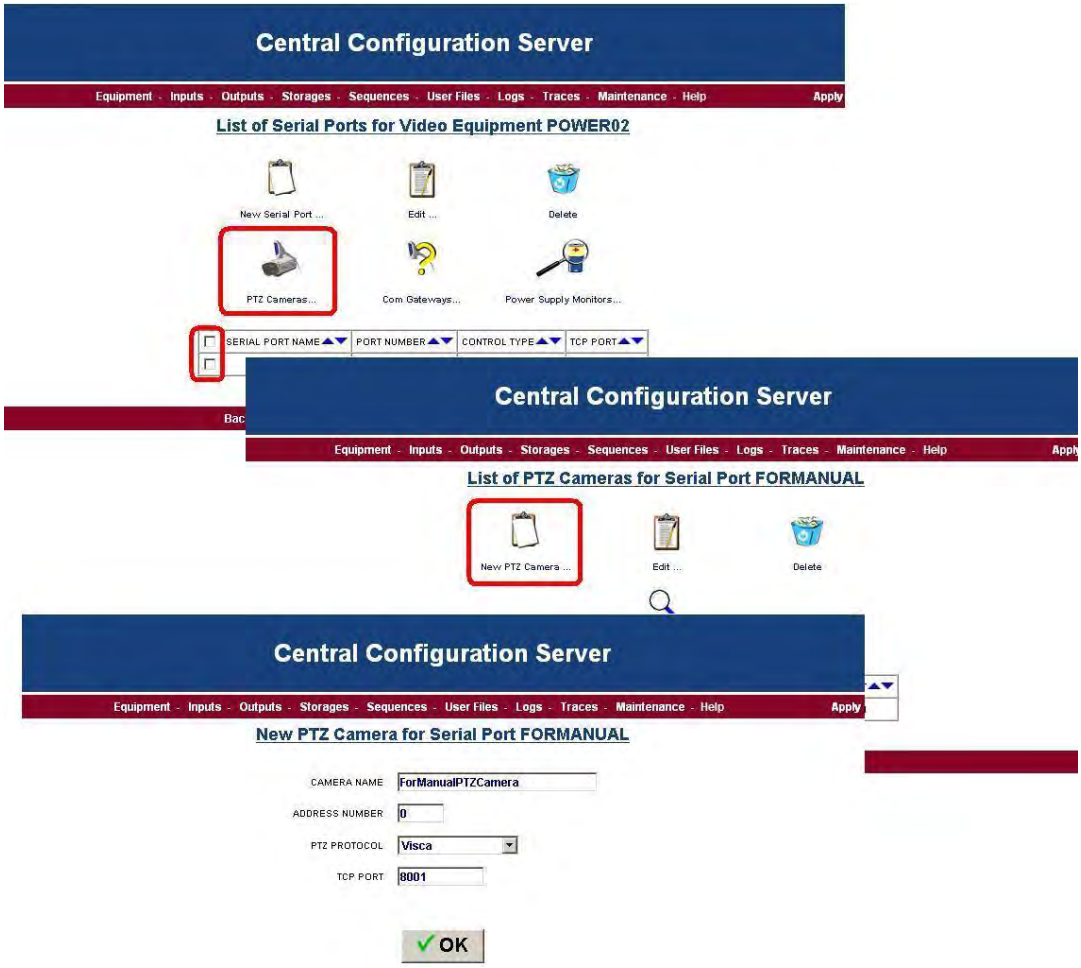
The new PTZ camera should now appear in the List of PTZ Cameras for current serial port.

You can define the following parameters on this page:

Camera Name	Unique short name for referencing the camera.

Address Number	This is the address number of the camera that is configured in the camera itself. If the serial port is type RS422 or RS485, there can be several cameras chained together and connected to the same port. This parameter specifies the camera's position in the chain.
PTZ Protocol	New protocols can be added using the UltraView Mobile Camera Language.
TCP Port	TCP port number to be used for the PTZ camera server TCP socket. The client application will connect to this socket for sending remote control commands. This TCP port number must be unique and cannot be shared with any other server. (Default value: 8001)

Figure 65: New PTZ camera


Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
List of Serial Ports for Video Equipment POWER02
New Serial Port ...
Edit ...
Delete
PTZ Cameras...
Com Gateways...
Power Supply Monitors...
SERIAL PORT NAME
PORT NUMBER
CONTROL TYPE
TCP PORT
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
List of PTZ Cameras for Serial Port FORMANUAL
New PTZ Camera ...
Edit ...
Delete
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
New PTZ Camera for Serial Port FORMANUAL
CAMERA NAME
ForManualPTZCamera
ADDRESS NUMBER
0
PTZ PROTOCOL
Visca
TCP PORT
8001
OK

Edit PTZ camera

To edit a PTZ camera, follow these steps:

1. Open the List of Serial Ports page as described in “List serial ports” on page 71.
2. Select the serial port from the displayed list by checking the box in the leftmost column.

3. Click the PTZ Camera icon. The List of PTZ Camera for Serial Port page will open.
4. Select the PTZ camera by checking the box in the leftmost column.

   OR

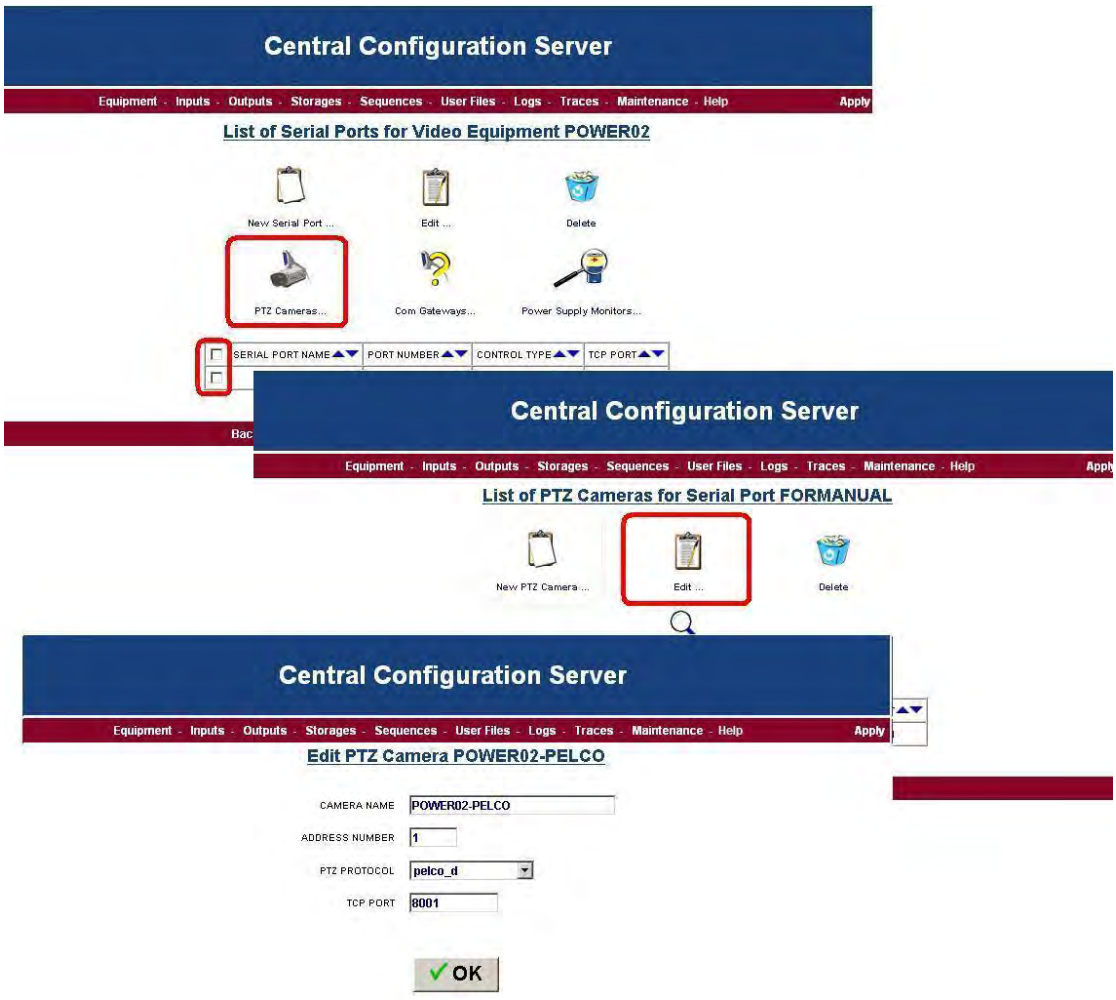
   Click the name of the camera from the camera name list. By doing this you can skip the next step. Clicking the name of the camera will open the Edit PTZ Camera page.
5. After you check the box, click the Edit icon. The Edit PTZ Camera page will open.

Note: It is also possible to select and edit several cameras at the same time if you want to set the same protocol for more than one camera. In this case, select the cameras to edit by checking the corresponding boxes in the leftmost column and click Edit to open the Group Edit PTZ Cameras page.

6. Edit the parameters as needed and click OK to confirm the changes.

For information about parameters, see “Add PTZ camera” on page 76.

Figure 66: Edit PTZ camera


Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
List of Serial Ports for Video Equipment POWER02
New Serial Port ...
Edit ...
Delete
PTZ Cameras...
Com Gateways...
Power Supply Monitors...
SERIAL PORT NAME
PORT NUMBER
CONTROL TYPE
TCP PORT
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
List of PTZ Cameras for Serial Port FORMANUAL
New PTZ Camera ...
Edit ...
Delete
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
Edit PTZ Camera POWER02-PELCO
CAMERA NAME
POWER02-PELCO
ADDRESS NUMBER
1
PTZ PROTOCOL
pelco_d
TCP PORT
8001
OK

PTZ camera actions

A PTZ camera action recalls a defined camera position. The actions are triggered by events. A PTZ camera action makes the camera return to the position associated with the triggering event. The number of available prepositions is protocol and camera dependent. Positions are set using the UltraView SDK (VWMobCamSvrCtrl2 ActiveX control).

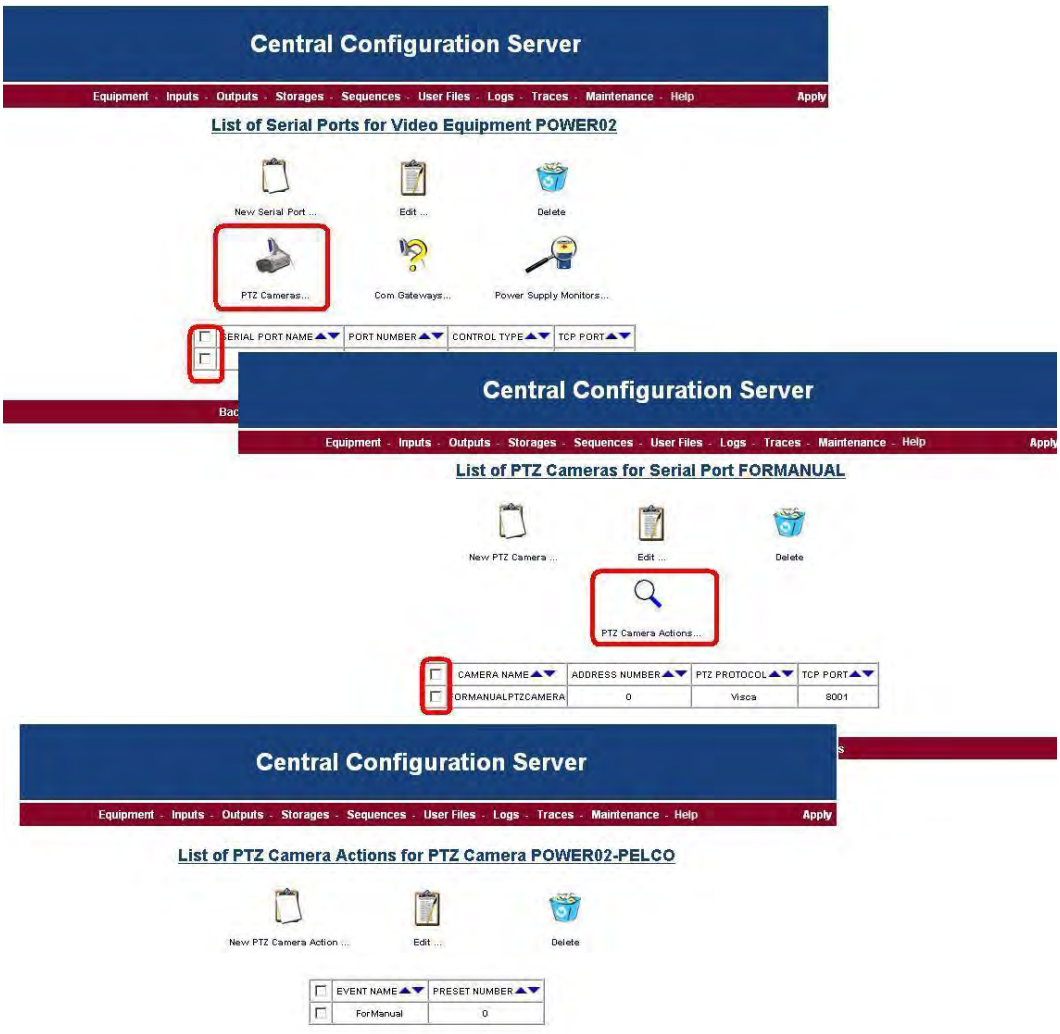
Events management is only available, if an event manager has been defined for the site. See “Event managers” on page 50.

List PTZ camera actions

To list PTZ camera actions, follow these steps:

1. Open the List PTZ Cameras, described in “List PTZ cameras” on page 75.
2. Click PTZ Camera Actions to open the List of PTZ Camera Actions page. On this page, all the actions defined (event names) for the selected PTZ camera are displayed.

Figure 67: List of PTZ camera actions



Add PTZ camera action

To add a PTZ camera action, follow these steps:

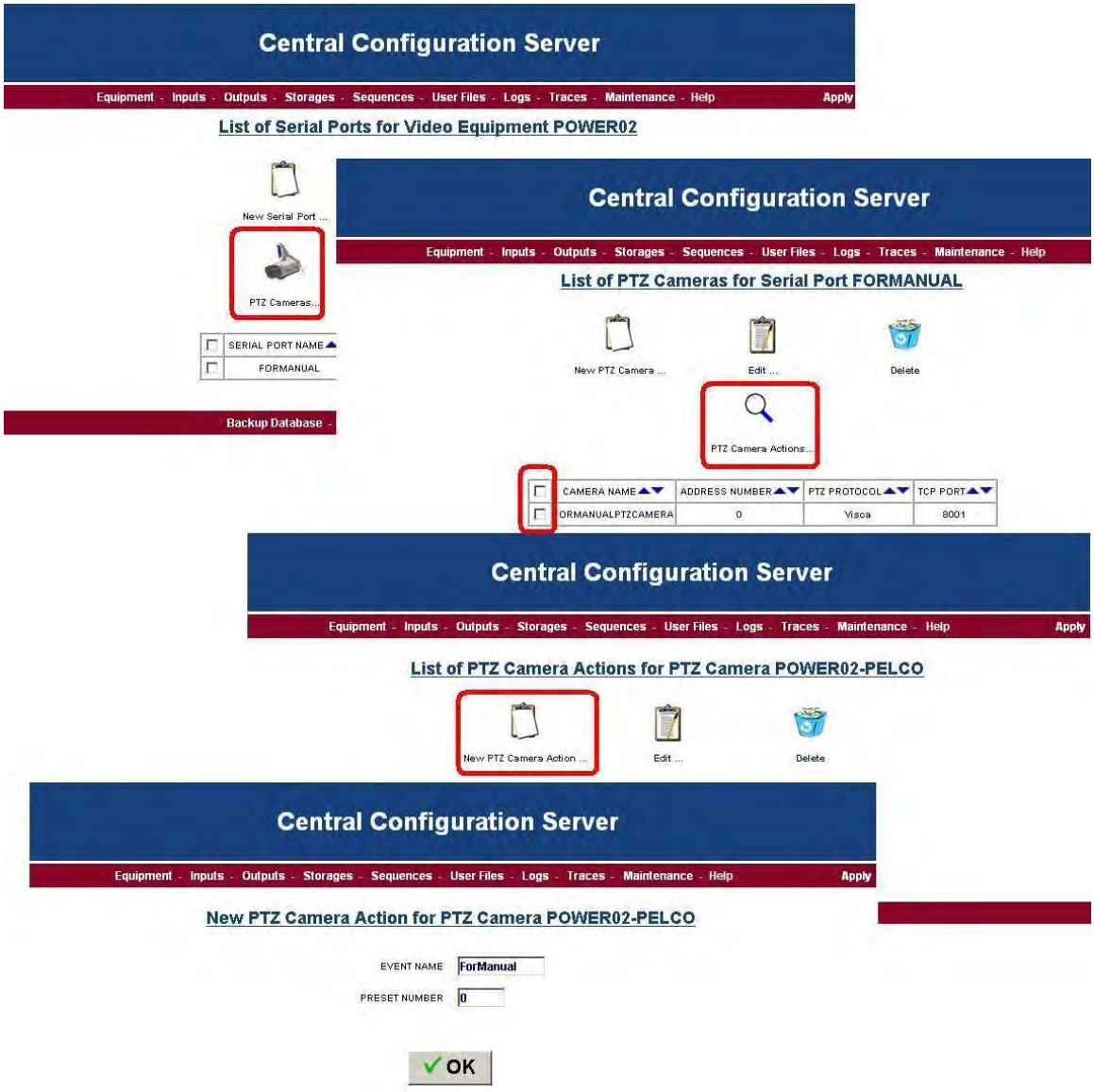
1. Open the List PTZ Cameras Actions as described in “List PTZ camera actions” on page 79.
2. Click New PTZ Camera Action. The New PTZ Camera Action for PTZ Camera page will open.
3. Edit the parameters as needed and click OK to confirm the changes.

The new PTZ camera action should now appear in the List of PTZ Camera Actions page for the currently selected camera.

You can define the following parameters on this page:

Event Name	Name of the event that triggers the camera action.
Preset Number	Preposition number to recall.

Figure 68: New PTZ camera actions


Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
List of Serial Ports for Video Equipment POWER02
New Serial Port ...
PTZ Cameras...
SERIAL PORT NAME
FORMANUAL
Backup Database -
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
List of PTZ Cameras for Serial Port FORMANUAL
New PTZ Camera ...
Edit ...
Delete
PTZ Camera Actions...
CAMERA NAME
ADDRESS NUMBER
PTZ PROTOCOL
TCP PORT
FORMANUALPTZCAMERA
0
Visca
8001
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
List of PTZ Camera Actions for PTZ Camera POWER02-PELCO
New PTZ Camera Action ...
Edit ...
Delete
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
New PTZ Camera Action for PTZ Camera POWER02-PELCO
EVENT NAME
ForManual
PRESET NUMBER
0
OK

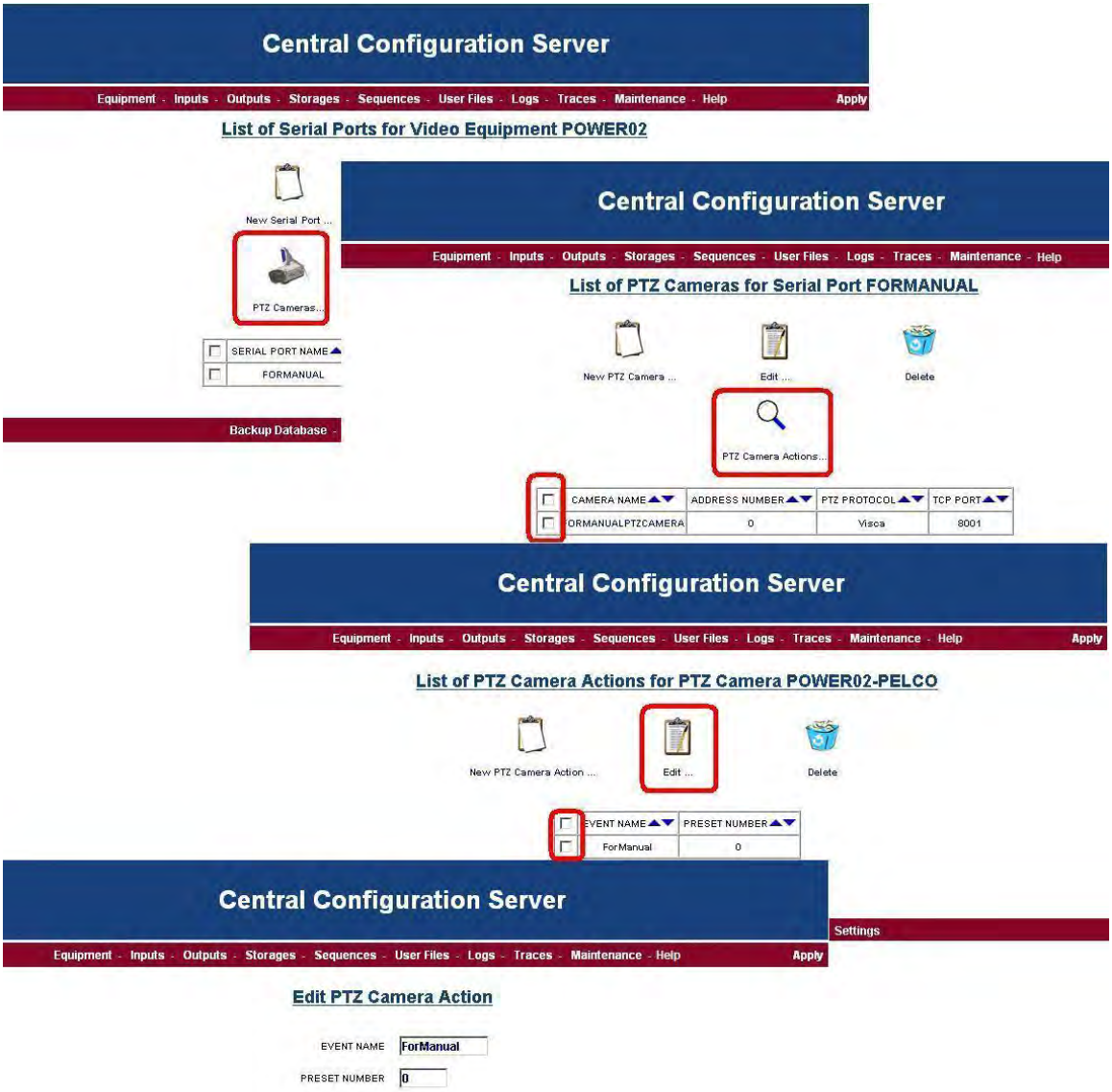
Edit PTZ camera action

To edit a PTZ camera action, follow these steps:

1. Open the List PTZ Cameras Actions as described in “List PTZ camera actions” on page 79.
2. Select the event name from the displayed list, by checking the box in the leftmost column.
3. Click the Edit icon. The Edit PTZ Camera Action page will open.
4. Edit the parameters as needed and click OK to confirm the changes.

For information about parameters, see “Add PTZ camera action” on page 80

Figure 69: Edit PTZ camera action


Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
List of Serial Ports for Video Equipment POWER02
New Serial Port ...
PTZ Cameras...
SERIAL PORT NAME
FORMANUAL
Backup Database -
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
List of PTZ Cameras for Serial Port FORMANUAL
New PTZ Camera ...
Edit ...
Delete
PTZ Camera Actions...
CAMERA NAME
ADDRESS NUMBER
PTZ PROTOCOL
TCP PORT
FORMANUALPTZCAMERA
0
Visca
8001
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
List of PTZ Camera Actions for PTZ Camera POWER02-PELCO
New PTZ Camera Action ...
Edit ...
Delete
EVENT NAME
PRESET NUMBER
ForManual
0
Central Configuration Server
Settings
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
Edit PTZ Camera Action
EVENT NAME
ForManual
PRESET NUMBER
0

Com gateways

A Com gateway transparently links two com ports over the network. For example, a Com gateway linking Com port A to B will write all the data of A on B. It is typically used to link a PTZ keyboard to a PTZ camera to transfer the information without considering the protocol.

List Com gateways

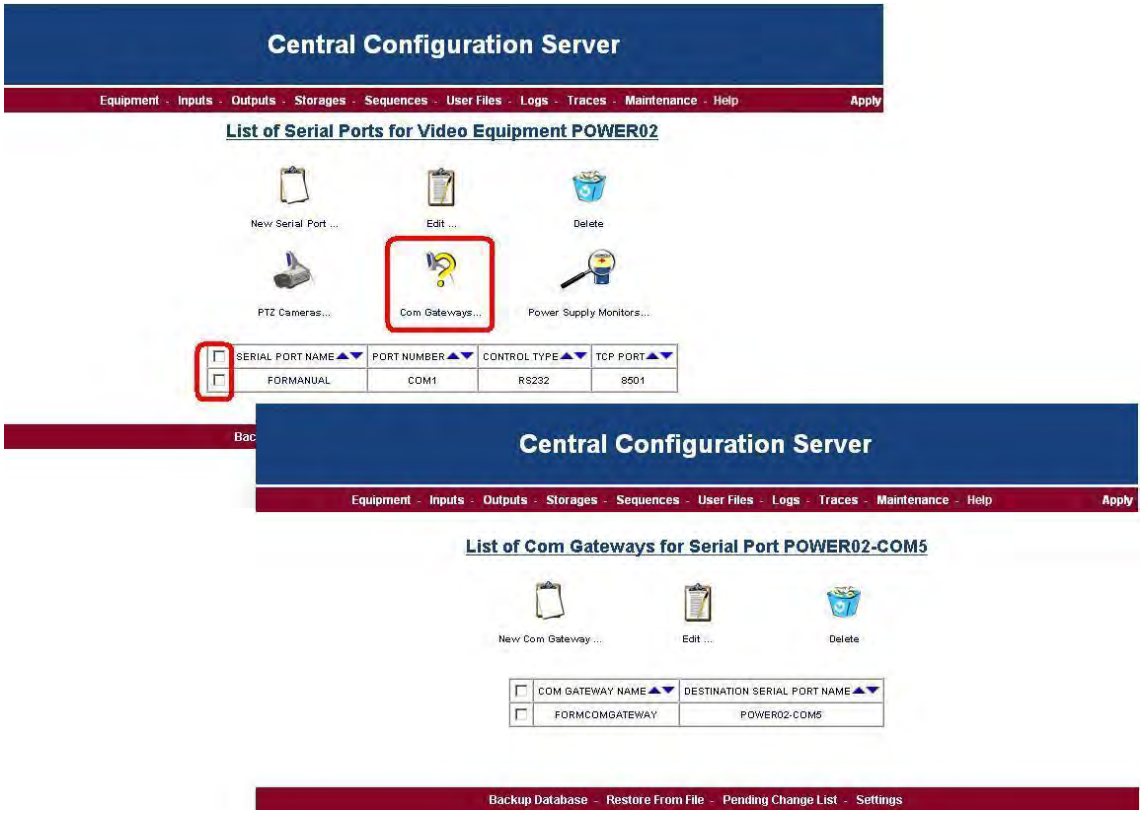
To list Com gateways, follow these steps:

1. Open the List of Serial Ports as described in “List serial ports” on page 71.
2. Select the serial port from the displayed list by checking the box in the leftmost column.
3. Click the Com Gateways icon. The List of Com Gateways for Serial Port page will open.

On this page, the Com gateways associated with the currently selected serial port are displayed.

For information about parameters, see “Add Com gateway” below.

Figure 70: List of Com gateways


Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
List of Serial Ports for Video Equipment POWER02
New Serial Port ...
Edit ...
Delete
PTZ Cameras...
Com Gateways...
Power Supply Monitors...
SERIAL PORT NAME
PORT NUMBER
CONTROL TYPE
TCP PORT
FORMANUAL
COM1
RS232
8501
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
List of Com Gateways for Serial Port POWER02-COM5
New Com Gateway ...
Edit ...
Delete
COM GATEWAY NAME
DESTINATION SERIAL PORT NAME
FORMCOMGATEWAY
POWER02-COM5
Backup Database - Restore From File - Pending Change List - Settings

Add Com gateway

To add a Com gateway to selected serial port, follow these steps:

1. Open the List of Com Gateways as described in “List Com gateways” above.

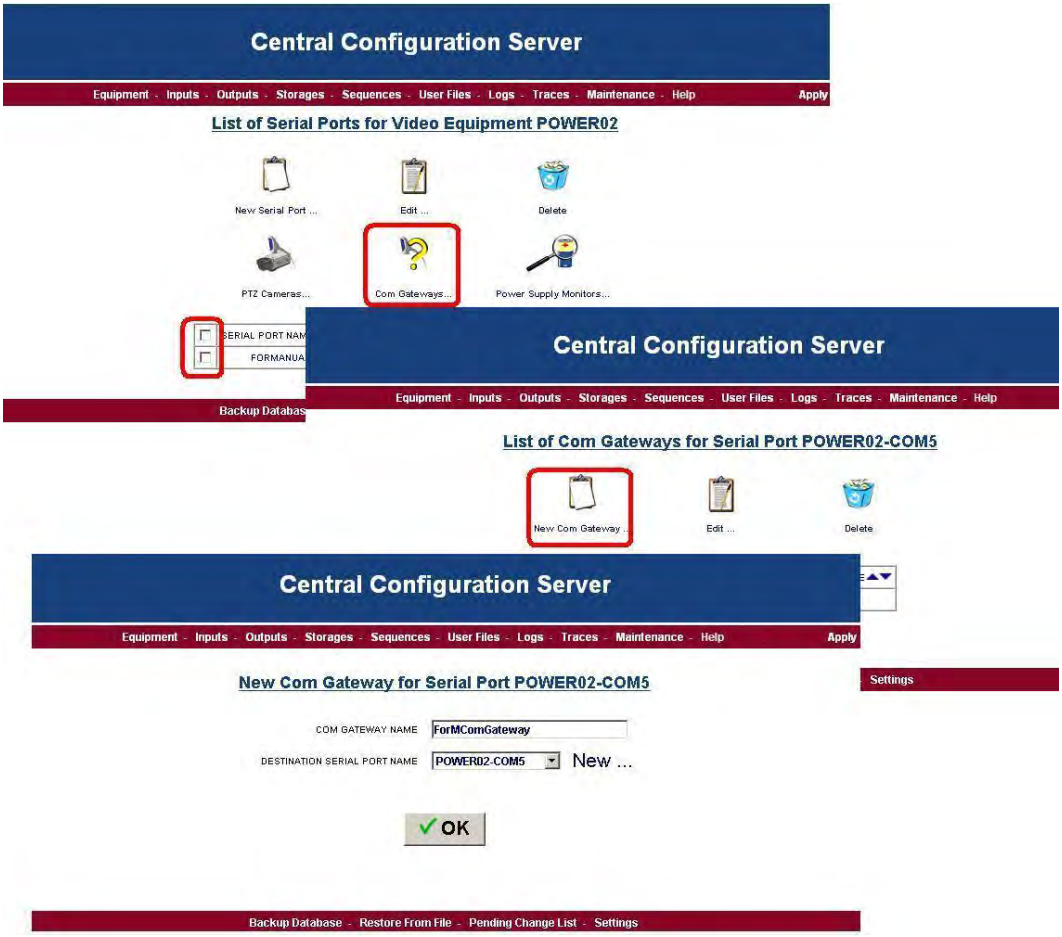
2. Click the New Com Gateways icon. The New Com Gateway for Serial Port page will open.
3. Edit the parameters as needed and click OK to confirm the changes.

The new Com gateway should now appear in the List of Com Gateways for the currently selected serial port.

You can define the following parameters on this page:

Com Gateway Name	Define a name for the new Com gateway.
Destination Serial Port Name	Define the name of the serial port from the drop down list.

Figure 71: New Com gateway


Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
List of Serial Ports for Video Equipment POWER02
New Serial Port ...
Edit ...
Delete
PTZ Cameras...
Com Gateways...
Power Supply Monitors...
Backup Databas
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
List of Com Gateways for Serial Port POWER02-COM5
New Com Gateway ...
Edit ...
Delete
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
Settings
New Com Gateway for Serial Port POWER02-COM5
COM GATEWAY NAME
ForMComGateway
DESTINATION SERIAL PORT NAME
POWER02-COM5
New ...
OK
Backup Database - Restore From File - Pending Change List - Settings

Edit Com gateway

To edit a Com gateway, follow these steps:

1. Open the List of Com Gateways as described in “List Com gateways” on page 82.
2. Select the Com gateway from the displayed list by checking the corresponding box in the leftmost column

   OR

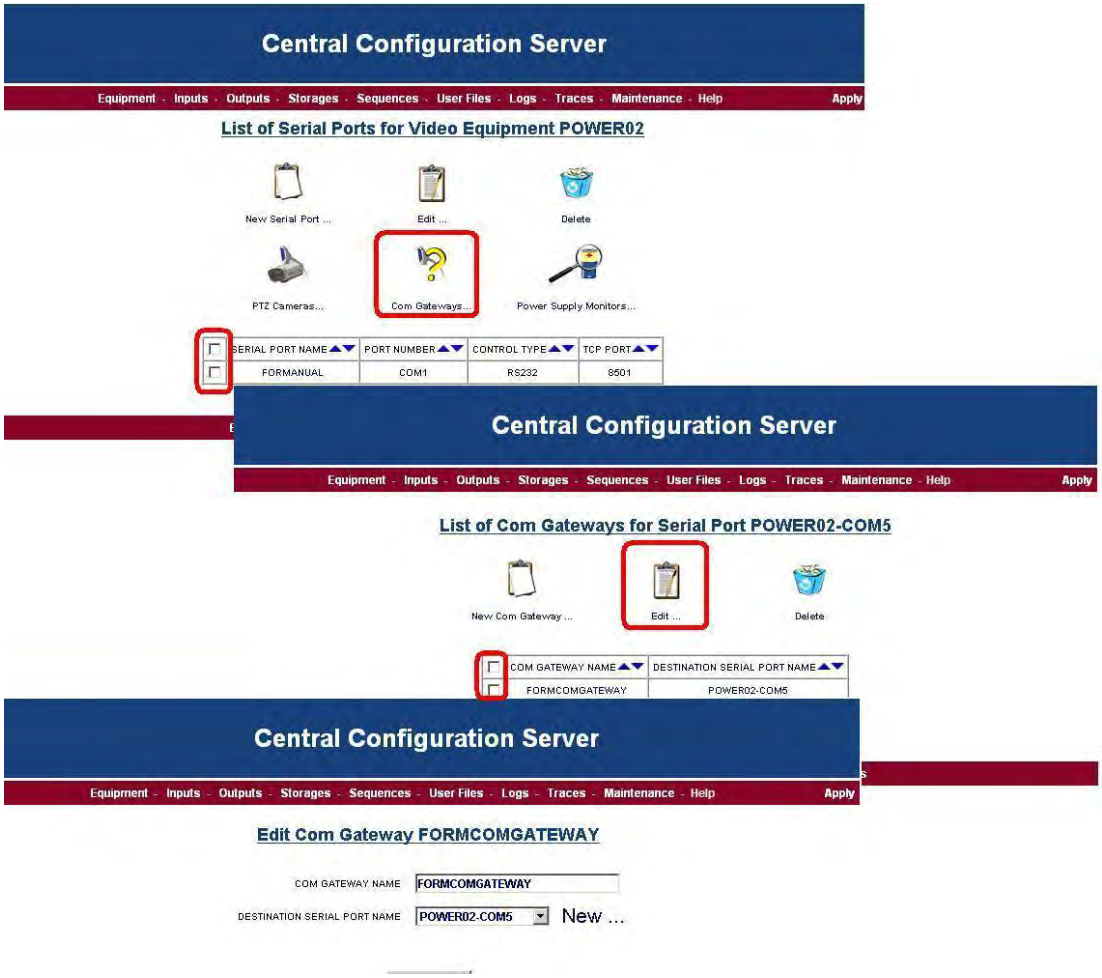
Click the Com gateway name from the displayed list. The Edit Com Gateway page will open.

3. Edit the parameters as needed and click OK to confirm the changes.

For information about parameters, see “Add Com gateway” on page 82.

Note: You can edit all the Com Gateways in one step. Check the box in the header to select all the displayed Com Gateways and click edit. Edit the parameters and click OK.

Figure 72: Edit Com gateways



Power supply monitors

The power supply monitor supervises the power supply of the selected video equipment in real time. The following parameters are monitored:

- Power supply status
- Current voltage on the system power rails
- Chassis temperature
- Power supply and fans‟ current speed and status

Note: The power supply monitor works only by connecting the power supplies Com port with the video equipment and by properly configuring the Com port in the Central Configuration Server.

You can cross-monitor the equipment by connecting to it with a serial cable.

Note: The monitored power supply parameters can be seen in the Central Configuration Server as described in section “Health monitoring” on page 110

List power supply monitors

All the power supply monitors associated with the selected video equipment are displayed in a list.

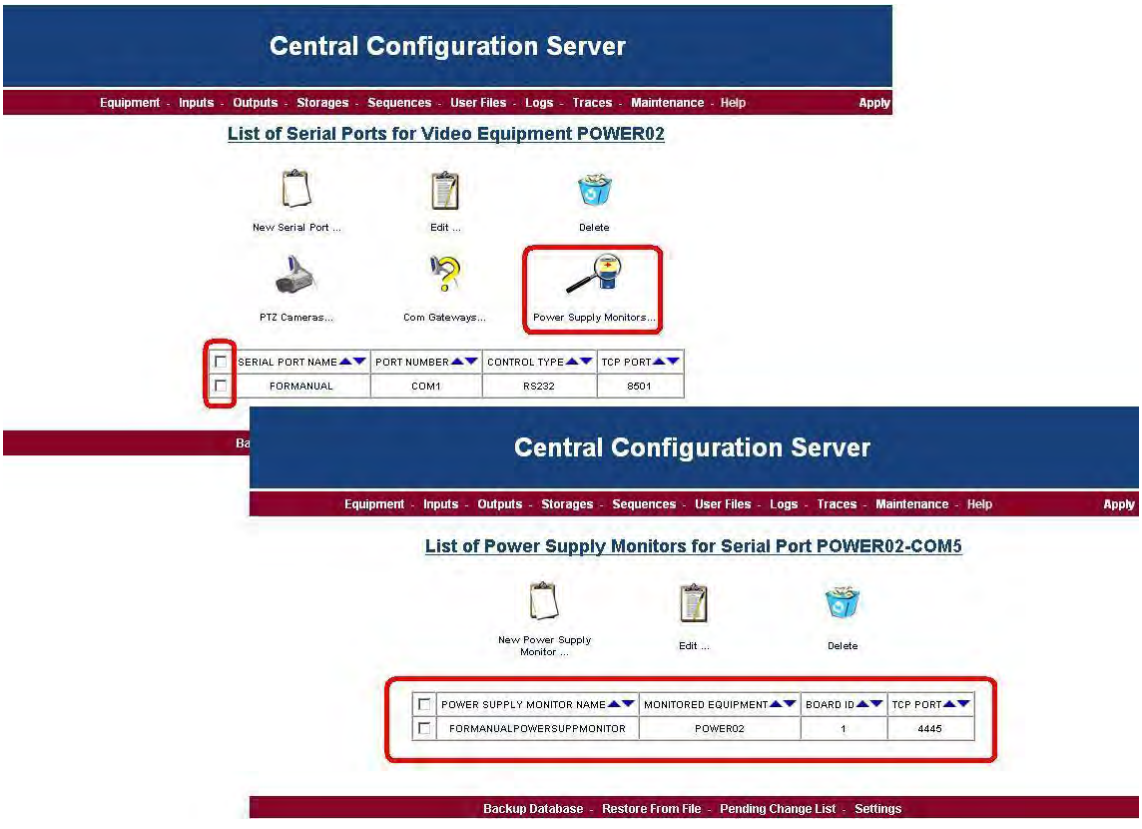
To list power supply monitors, follow these steps:

1. Open the List of Serial Ports as described in “List serial ports” on page 71.
2. Select the serial port from the displayed list by checking the box in the leftmost column.
3. Click the Power Supply Monitors icon. The List of Power Supply Monitors for Video Equipment page will open. The list is displayed in a tabular form.

On this page, all the power supply monitors configured for the selected video equipment are displayed.

For information about parameters, see “Add power supply monitors” below.

Figure 73: List of power supply monitors



Add power supply monitors

To add a power supply monitor, follow these steps:

1. Open the List of Power Supply Monitors as described in “List power supply monitors” above.

2. Click the New Power Supply Monitor icon. The New Power Supply Monitor for the Video equipment page will open.
3. Edit the different parameters as needed and click OK to confirm the changes.

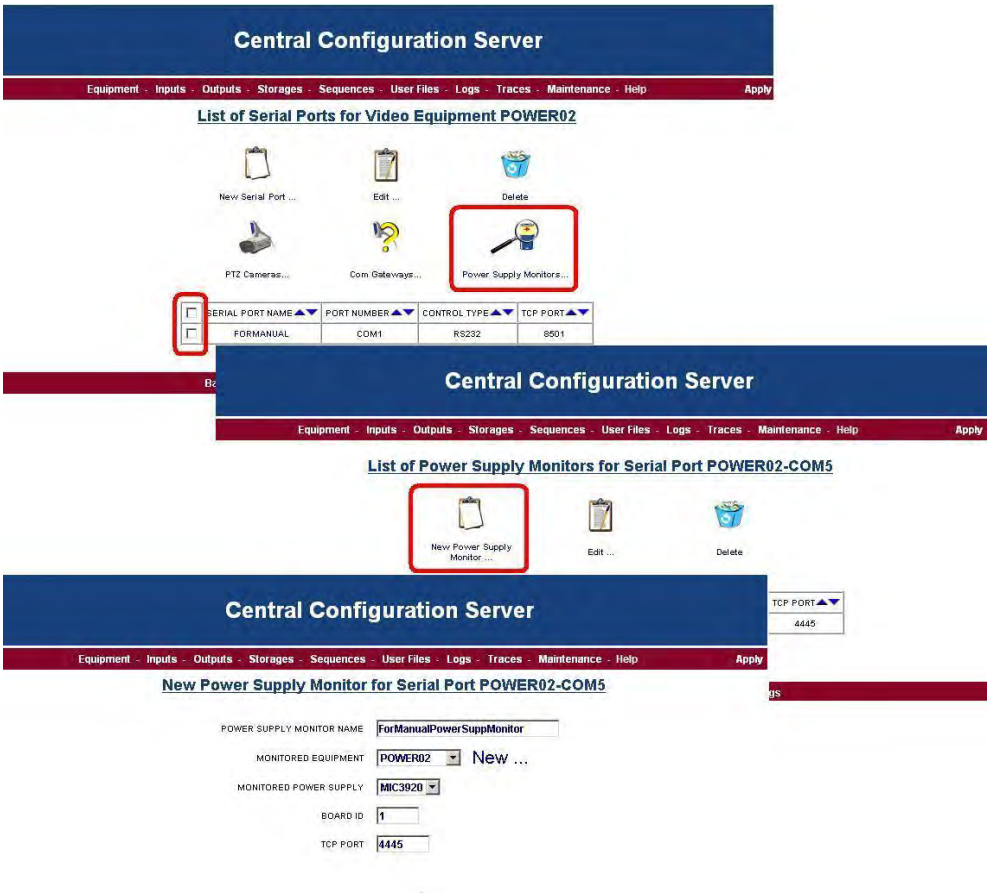
The new power supply monitor should now appear in the List of Power Supply Monitors.

Note: From this page you can also define new video equipment by clicking New.

You can define the following parameters on this page:

Power Supply Monitor Name	Define the name.
Monitored Equipment	Select the video equipment to be monitored.
Monitored Power Supply	Set to Mic 3920 (for Evolution HD 3005) or Mic 3924 (for Discovery 2405 and UltraView devices). This is the alarm module type used by the equipment.
Board ID	Define the board ID, this value is usually 0.
TCP Port	Define the TCP Port to be used by the UltraView SDK (VWRemoteMonitorCtrl). (Default value: 4445)

Figure 74: New power supply monitor



Edit power supply monitor

To edit a power supply monitor, follow these steps:

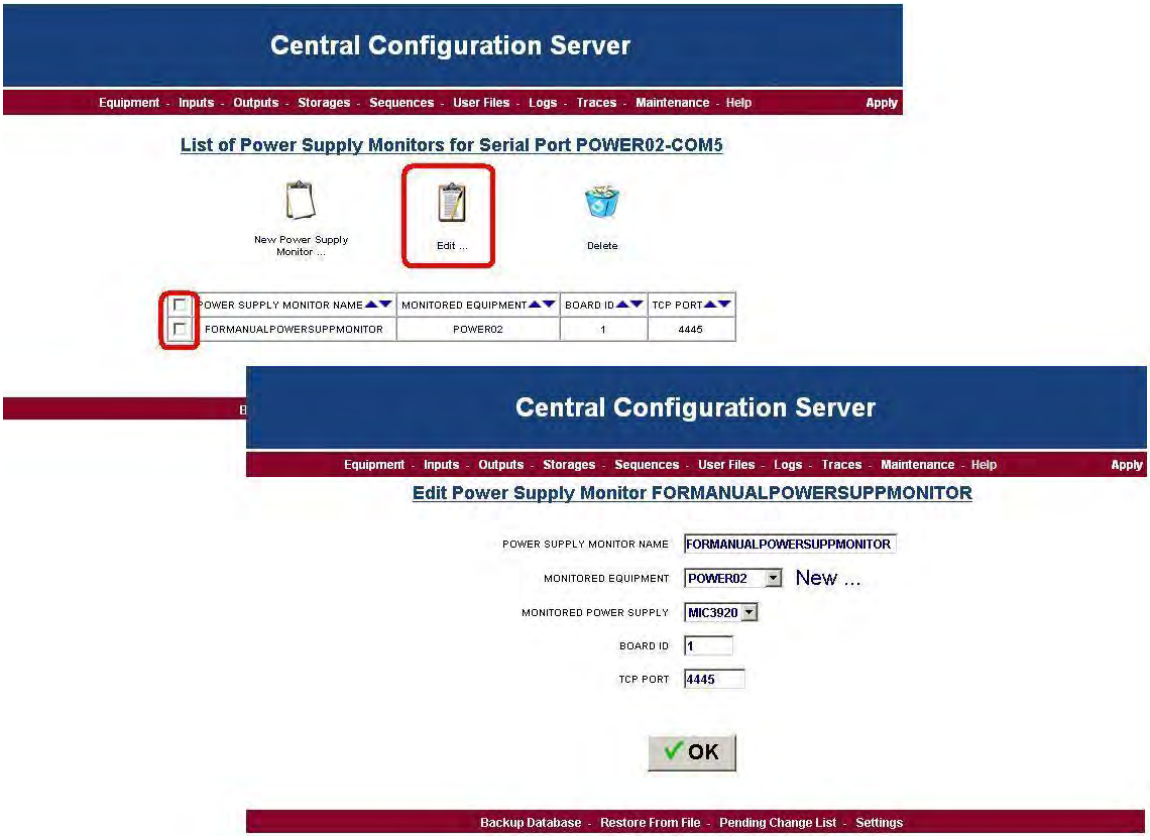
1. Open the List of Power Supply Monitors as described in “List power supply monitors” on page 85.
2. Select the power supply monitor name from the displayed list by checking the box in the leftmost column.
3. Click the Edit icon. The Edit Power Supply Monitor page will open.
4. Edit the parameters as needed and click OK to confirm the changes.

Note: Clicking the power supply monitor name in the list opens the Edit Power Supply Monitor page.

Note: You can group edit the monitors by checking the box in the header section and then clicking the icon edit. This is done, for instance, to assign the same TCP port for all the monitors.

See “Add power supply monitors” on page 85 for a description of the displayed parameters.

Figure 75: Edit power supply monitor



Digital inputs

On this page, you can configure the digital inputs of the optional Digital I/O Board on the video equipment. These inputs can be used for handling external sensors, such as infrared intrusion sensors or electrical detectors.

List digital inputs

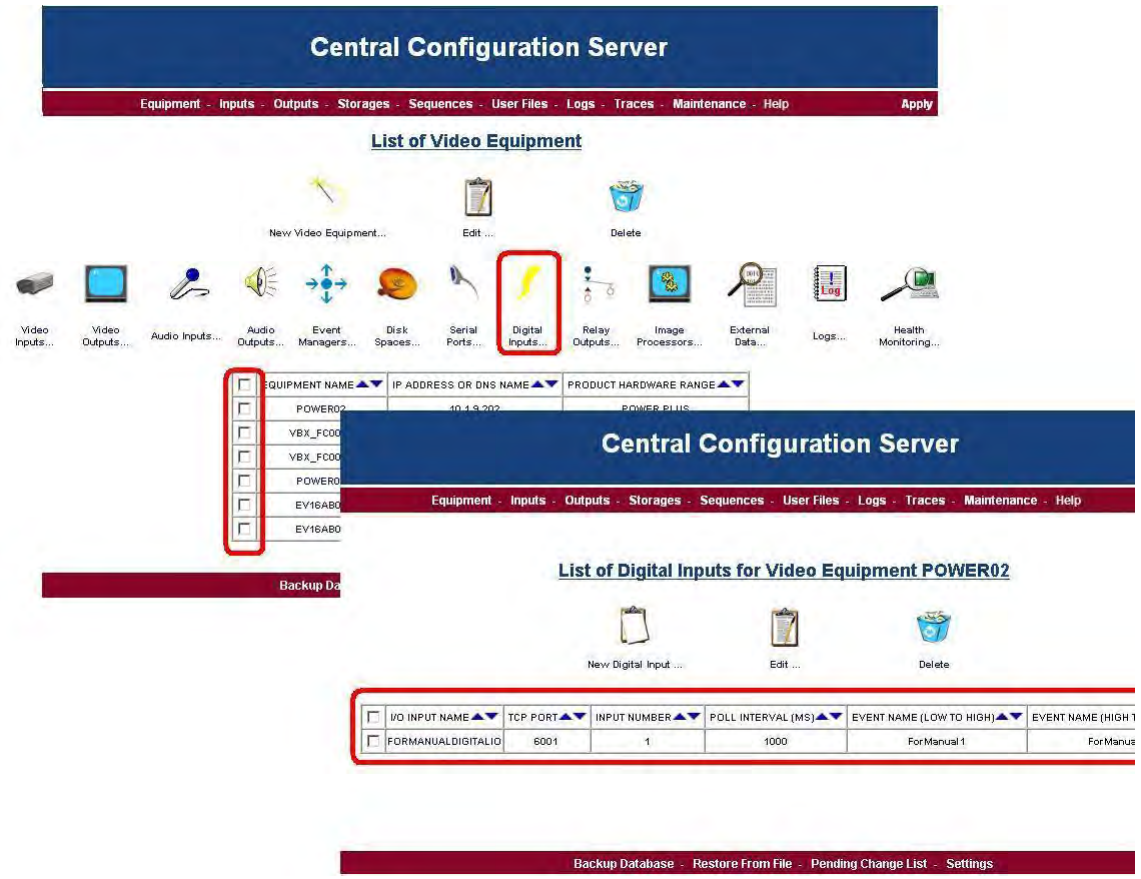
To list digital inputs, follow these steps:

1. Open the List of Video equipment as described in “List video equipment” on page 25.
2. Select the equipment to display the list of digital inputs associated with it by checking the box in the leftmost column of the displayed list.
3. Click the Digital Inputs icon. The List of Digital Inputs for Video Equipment page will open. The digital input list is displayed in a tabular form.

On this page, all digital inputs configured for the selected video equipment are displayed.

For information about parameters, see “Add digital input” on page 89.

Figure 76: List of digital inputs



Add digital input

To add a digital input, follow these steps:

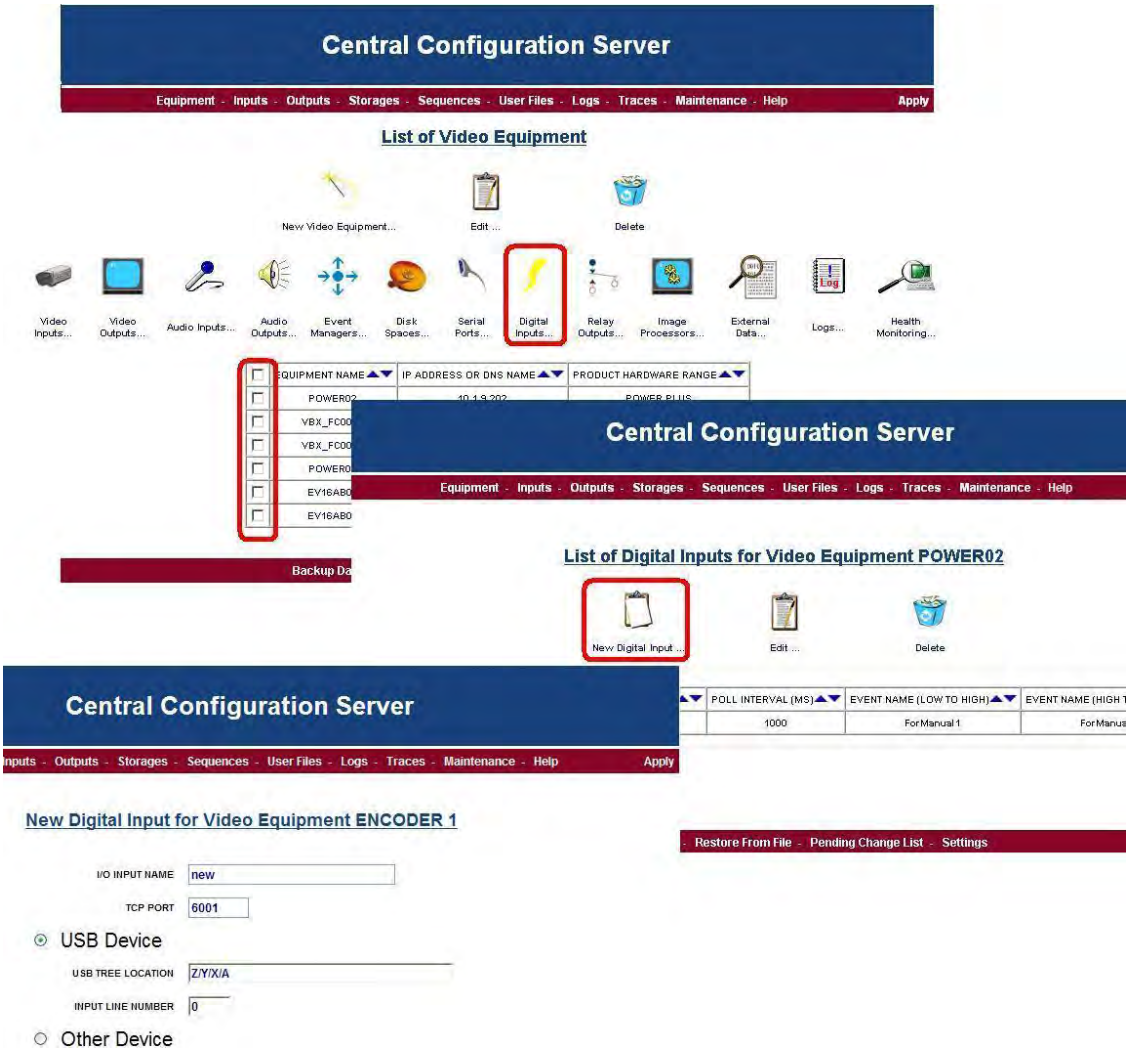
1. Open the List of Digital Inputs for Video Equipment as described in “List digital inputs” on page 88.
2. Click the New Digital Input icon. The New Digital Input for the Video Equipment page will open.
3. Edit the parameters as needed and click OK to confirm the changes.

The new digital input should now appear in the List of Digital Inputs for the current video equipment.

You can define the following parameters on this page:

I/O Input Name	Unique short name of the digital input.
TCP Port:	TCP port for remote control. (Default value: 6001)
USB Tree Location	Location of the I/O Input on the USB tree.
Input Line Number	Digital input number for remote control.
Digital Line	Needs a value greater than 0.
Poll Interval (ms)	Line state refresh period (in ms.).
Event Name (Low to High)	Name of the event sent when the input voltage goes high (circuit closes).
Event Name (High to Low)	Name of the event sent when the input voltage goes low (circuit opens).

Figure 77: New digital input



Edit Digital Input

To edit a digital input, follow these steps:

1. Open the List of Digital Inputs for Video Equipment as described in “List digital inputs” on page 88.
2. Select the digital input name that you want to edit by checking the box in the leftmost column of the displayed list.

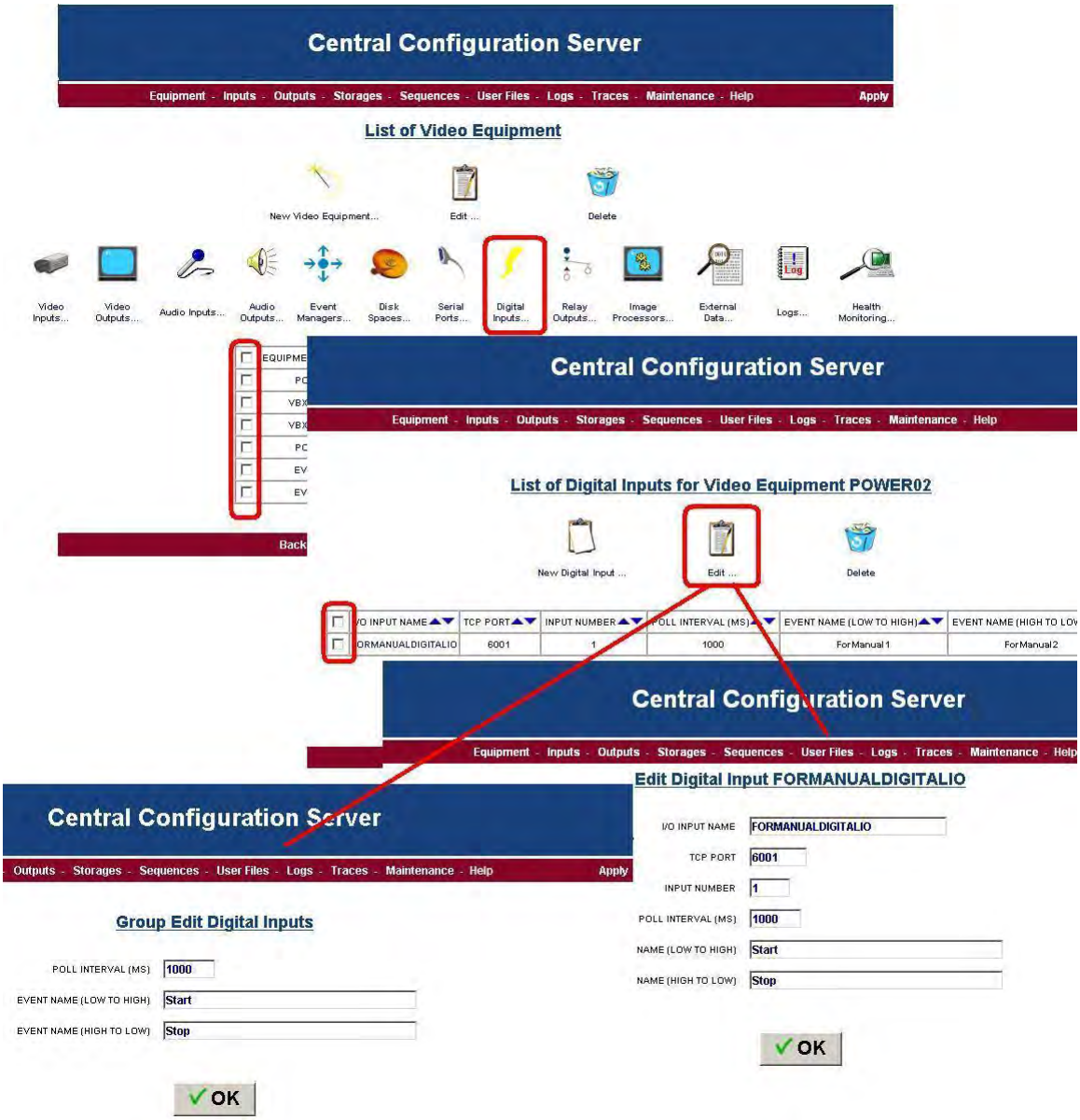
   OR

   Click the digital input name from the displayed list. By doing this you can skip the next step
3. If you have checked the box, then click the Edit icon. The Edit Digital Input page will open.
4. Edit the parameters as needed and click OK to confirm the changes.

Note: You can also edit all the displayed digital inputs in one step, for instance, to set the same poll interval for more than one input. Select the digital input by checking the corresponding boxes, or checking the box in the header section to select all the digital inputs, and clicking the Edit icon. The Group Edit Digital Inputs page will open.

For information about parameters, see “Add digital input” on page 89.

Figure 78: Edit digital input for group or single input



Delete digital input

To delete a digital input, follow these steps:

1. Open the List of Serial Ports page as described in “List digital inputs” on page 88.
2. Select the digital input by checking the corresponding box.
3. Click the Delete icon. The digital input will be deleted from the list.

Relay outputs

On this page, you can configure the relay outputs of the optional Digital I/O Boards on the video equipment.

List relay outputs

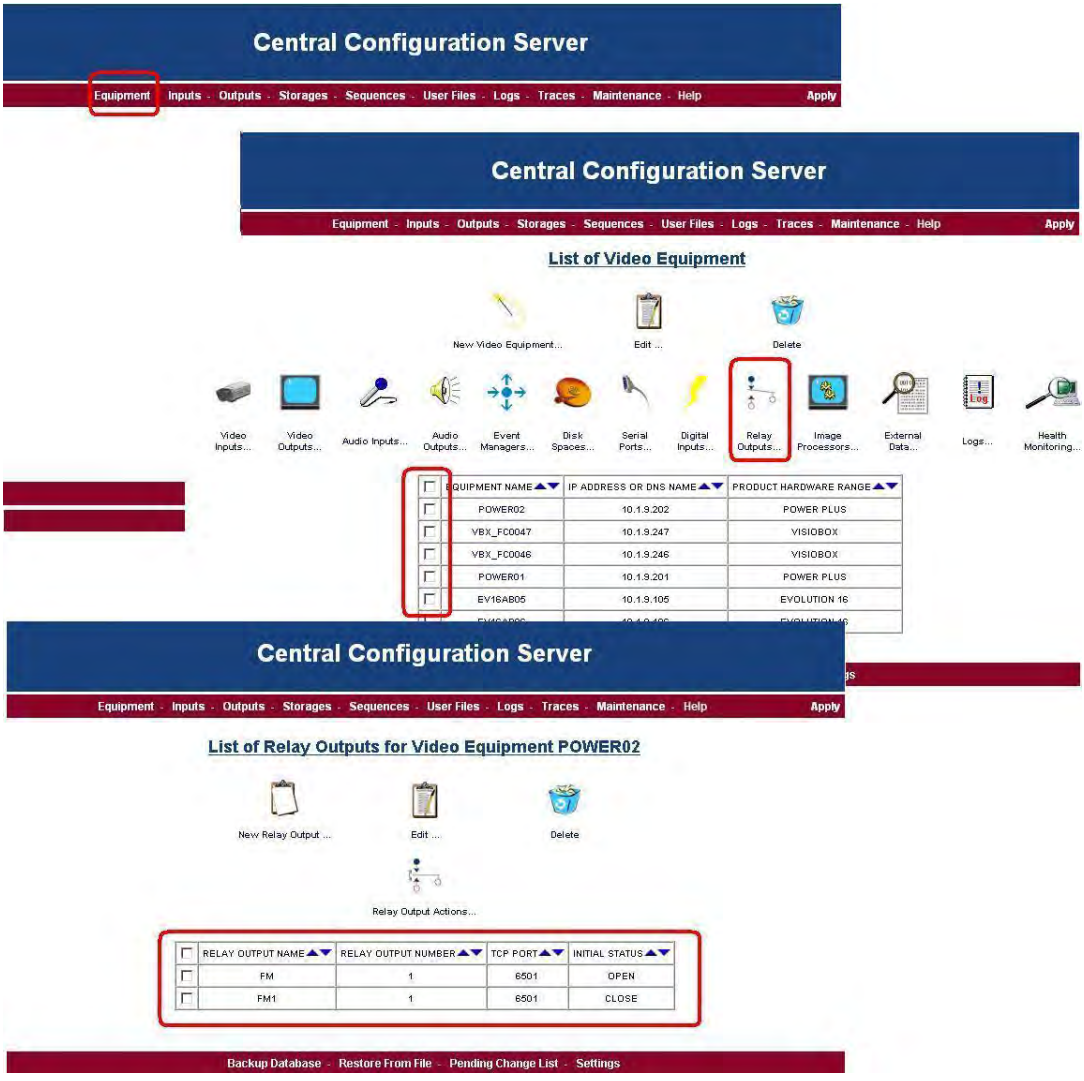
To list relay outputs, follow these steps:

1. Open the List of Video Equipment as described in “List video equipment” on page 25.
2. Select the equipment to display the relay outputs list associated with it by checking the corresponding box in the leftmost column of the displayed list.
3. Click the icon Relay Outputs. The List of Relay Outputs for Video Equipment page will open. The relay output list is displayed in a tabular form.

On this page, all relay outputs configured for the selected video equipment are displayed.

For information about parameters, see “Add relay output” on page 93.

Figure 79: List of relay outputs



Add relay output

To add a relay output, follow these steps:

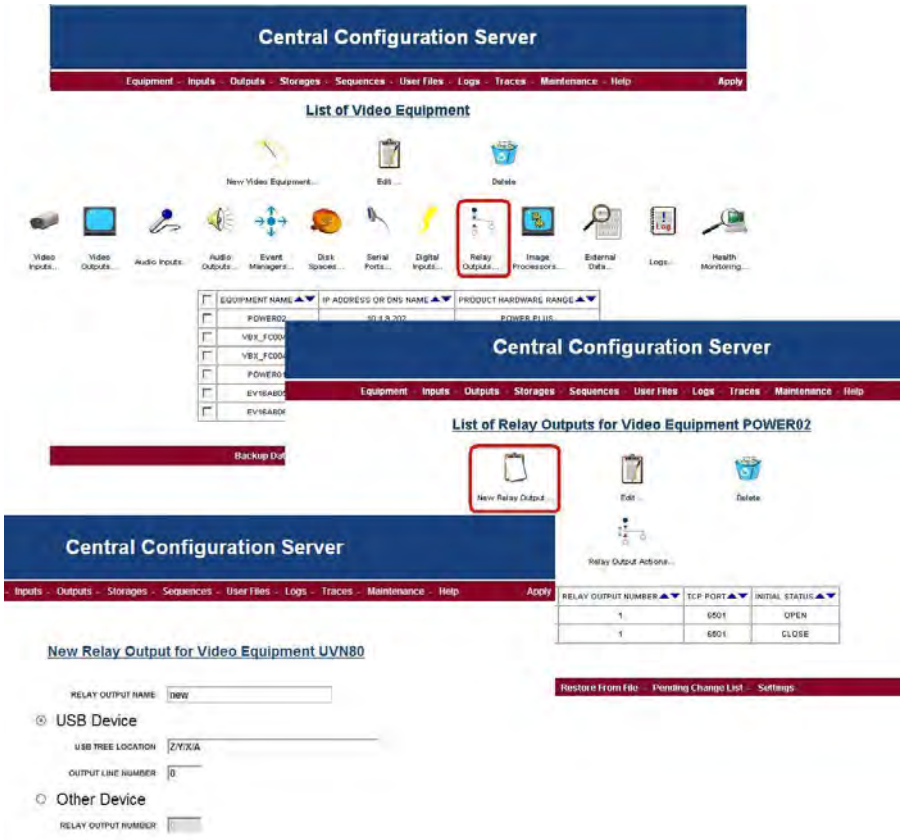
1. Open the List of Relay Outputs for the concerned video equipment as described in “List relay outputs” on page 92.
2. Click New Relay Output icon. The New Relay Output for the Video equipment page will open.
3. Edit the parameters as needed and click OK to confirm the changes.

The new relay output should now appear in the List of Relay Outputs for the current video equipment.

You can define the following parameters on this page:

Relay Output Name	Unique short name of the relay output.
USB Device	Select if you use a USB device.
USB Tree Location	Location of the I/O Input on the USB Tree.
Output Line Number	Digital output number for remote control.
Other Device	Select if you use a non-USB device.
Relay Output Number	Relay output number for remote control.
TCP Port	TCP port for remote control.
Initial Status:	Relay status at startup. (Default value: 6501)

Figure 80: New relay output


Central Configuration Server
List of Video Equipment
Central Configuration Server
List of Relay Outputs for Video Equipment POWER02
Central Configuration Server
New Relay Output for Video Equipment UVN80
USB Device
Other Device

Edit relay output

Once the relay output for the selected video equipment has been created and displayed in the List of Relay Output page, it is possible to edit its parameters.

To edit a relay output, follow these steps:

1. Open the List of Relay Output for the concerned video equipment as described in “List relay outputs” on page 92.
2. Select the relay output name from the displayed list by checking the box in the leftmost column of the displayed list.

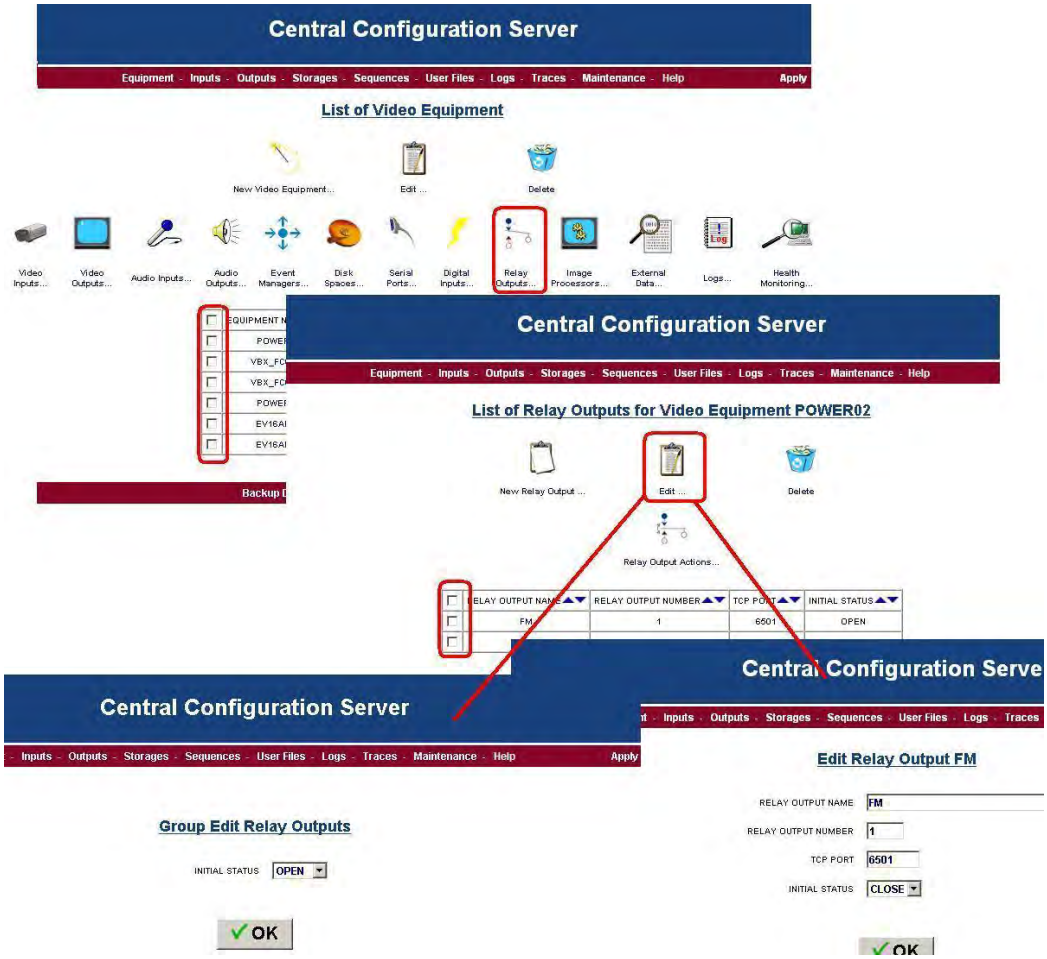
   OR
3. Click the name of the relay output name in the displayed list. By doing this you can skip the next step. If you have checked the box, click the Edit icon. The Edit Relay Output page will open.

Note: You can also edit all the relay outputs displayed in one step, for example, to set the initial state value for more than one relay output. Select the relay outputs by checking the corresponding boxes and clicking the Edit icon. The Group Edit Relay Outputs page will open.

4. Edit the settings as needed and click OK to confirm the changes.

For information about parameters, see “Add relay output” on page 93.

Figure 81: Edit relay output for a group or single output



Delete relay output

To delete a relay output, follow these steps:

1. Open the List of Relay Outputs page as described in “List relay outputs” on page 92.
2. Select the relay output by checking the corresponding box.
3. Click the Delete icon. The relay output will be deleted from the list.

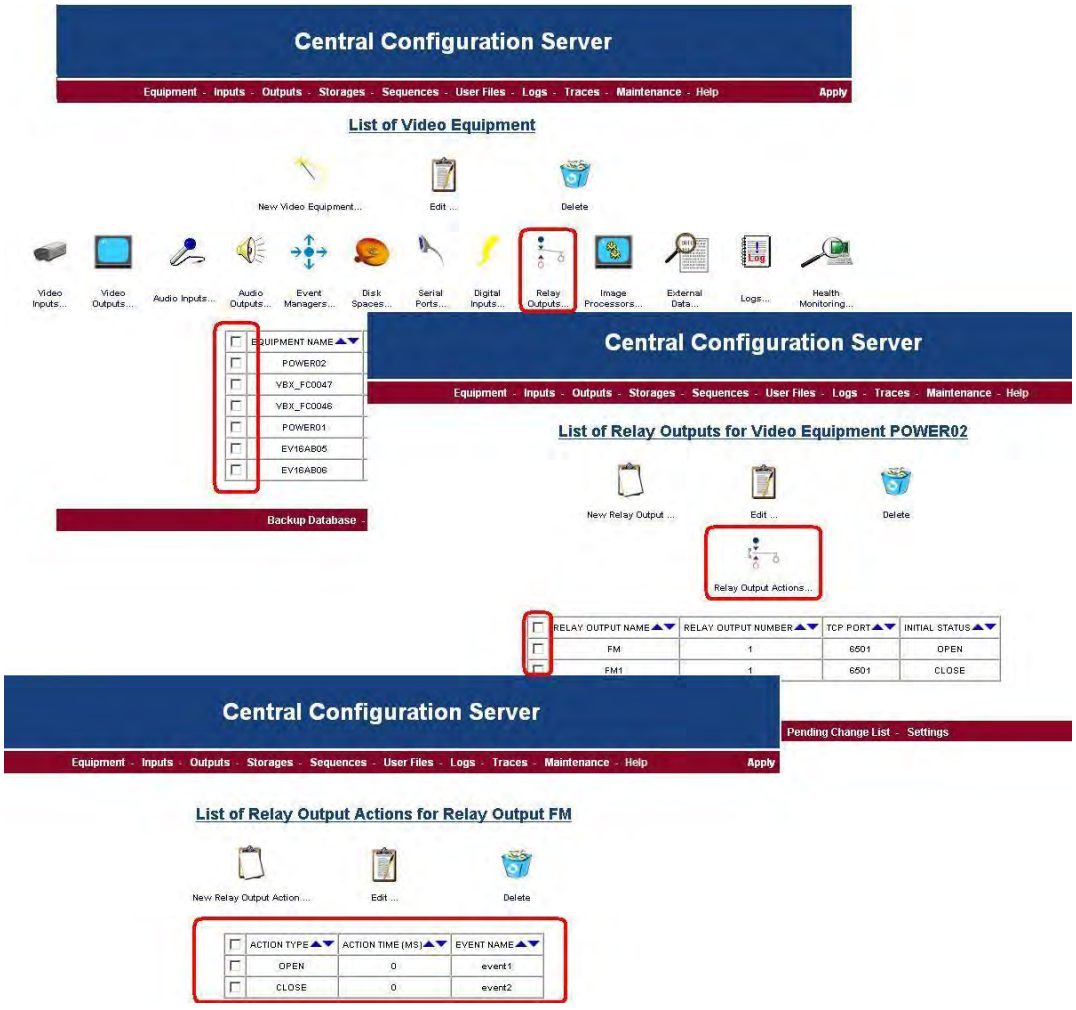
List relay output actions

To list output actions, follow these steps:

1. Open the List of Relay Outputs for the concerned video equipment as described in “List relay outputs” on page 92.
2. Select the relay output name from the displayed list by checking the box in the leftmost column of the displayed list.
3. Click the Relay Output Actions icon. The List of Relay Output Actions for Relay page will open. This page displays all the actions associated with the selected output relay.

For information about parameters, see “Add relay output action” on page 96.

Figure 82: List of relay output actions



Add relay output action

On this page, you can add output actions for the output relays.

To add a relay output action, follow these steps:

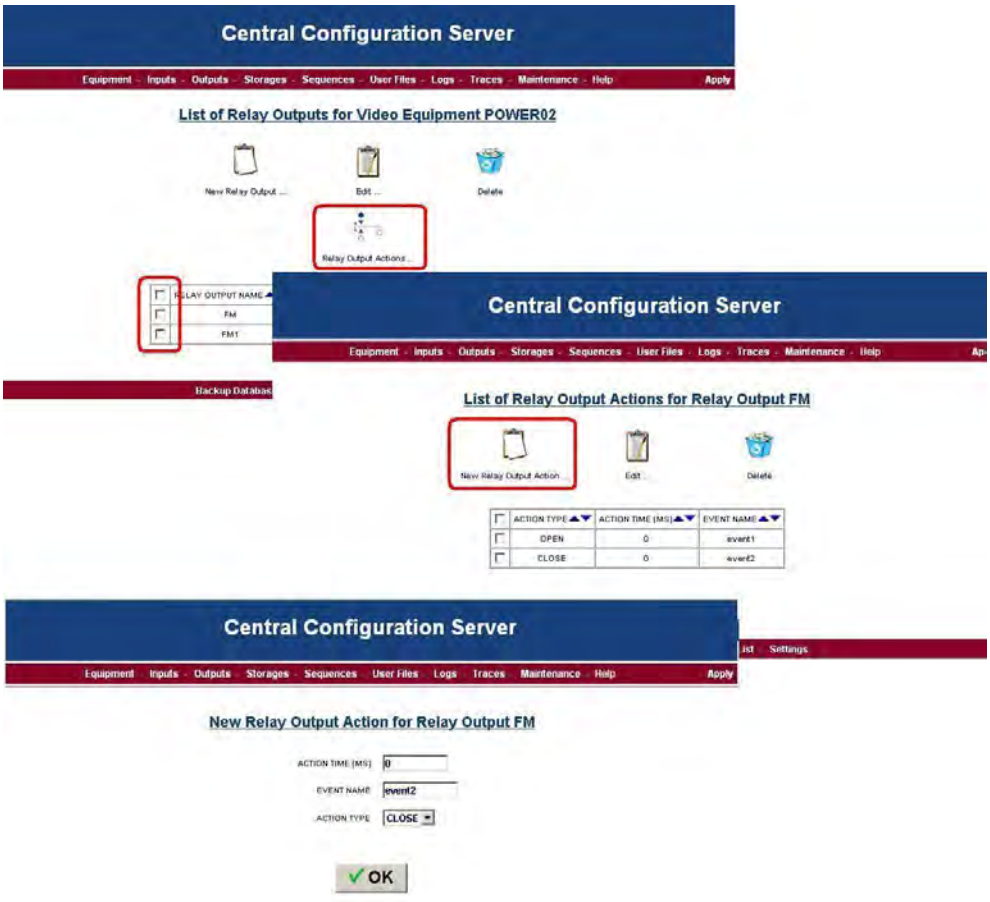
1. Open the List of Relay Output Actions for the selected relay output as described in “List relay output actions” on page 95.
2. Select the relay output name from the displayed list by checking the box in the leftmost column of the displayed list.
3. Click the Relay Output Actions icon. The List of Relay Output Actions for Relay page will open
4. Click the New Relay Output Actions icon. The page New Relay Output Actions for will open.
5. Edit the parameters as needed and click OK to confirm the changes.

The new relay output action should now appear in the List of Relay Output Actions for the current video equipment.

You can define the following parameters on this page:

Action Time (MS)	Duration of the action. The value 0 means it is permanent.
Action Type	Define the action if it is open or closed.
Event Name	Define the name of the event that triggers this relay action.

Figure 83: New relay output action



Editing the relay output actions

To edit a relay output action, follow these steps:

1. Open the List of Relay Output Actions for the selected relay output as described in “List relay output actions” on page 95.
2. Select the action type from the displayed list by checking the box in the leftmost column of the displayed list.
3. Click the Edit icon. The Edit Relay Output Action page will open.

Note: You can also edit all the relay output actions displayed in one step, for example, to set the action time or action type values for more than one relay output actions. Select the relay output actions by checking the corresponding boxes and clicking the Edit icon. The Group Edit Relay Output Actions page will open

4. Edit the parameters as needed and click OK to confirm the changes.

For information about parameters, see “Add relay output action” on page 96.

Figure 84: Edit relay output actions

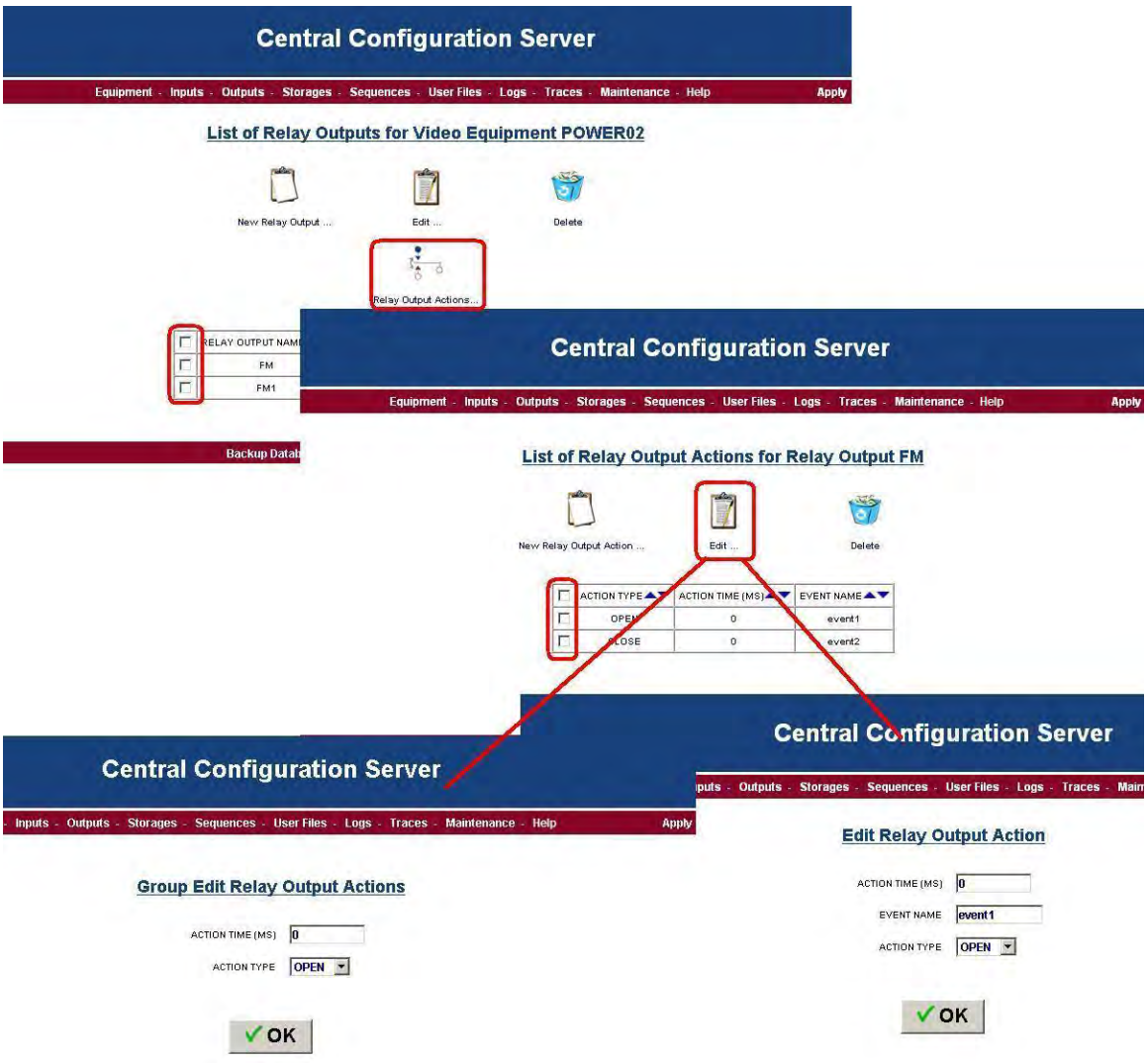


Image processors

Image processors are used for processing the video streams. You can assign specific video processing image processors to selected video ports on video equipment. Image processors are usually used for generating automated and intelligent alarms, based on image analysis, such as movement detection.

Before assigning image processors for the selected video equipment, make sure that the image processors are correctly defined. See “User files configuration” on page 154 to define new image processors.

List image processors

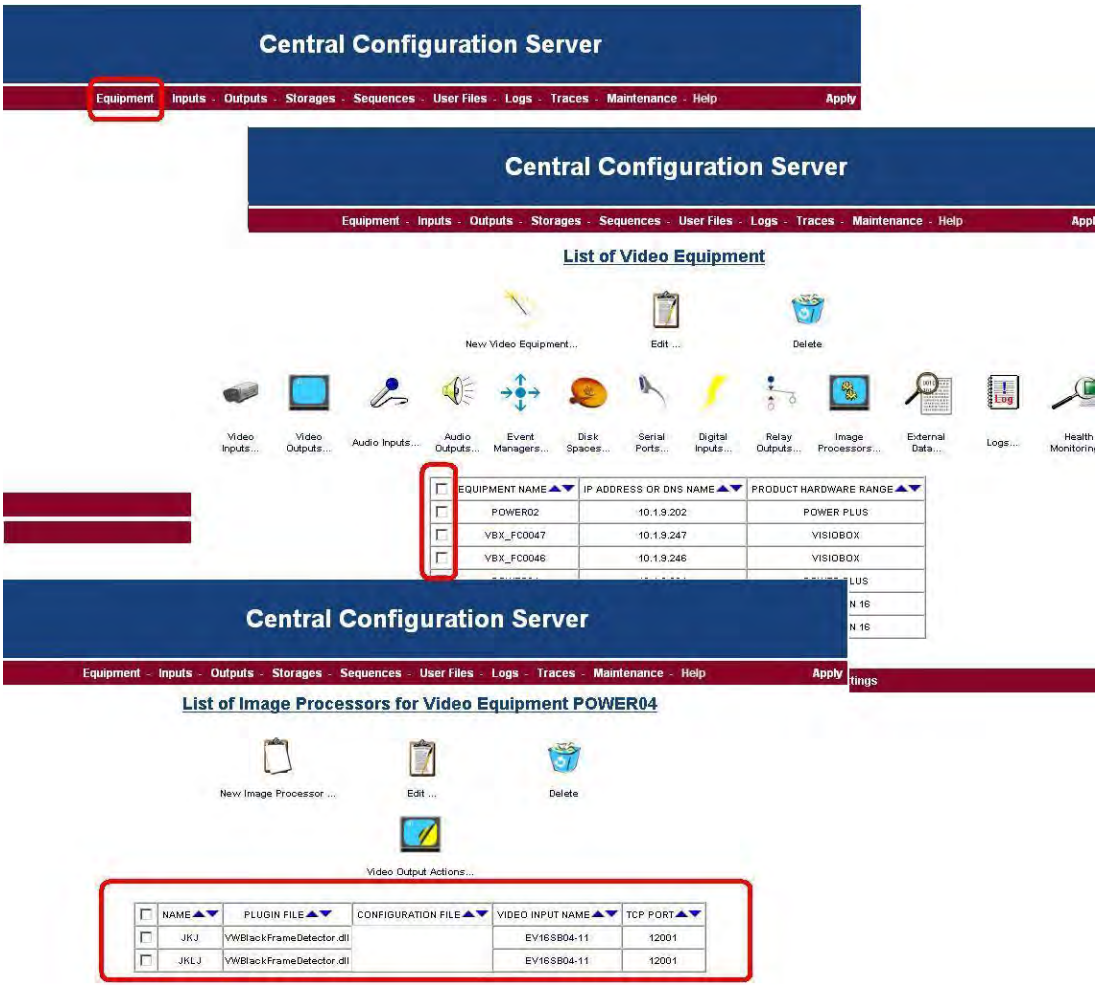
To list image processors assigned to the selected video equipment, follow these steps:

1. Open the List of Video equipment as described in “List video equipment” on page 25.
2. Select the video equipment, to display the List of Image Processors for Video Equipment associated with it, by checking the box in the leftmost column of the displayed list.
3. Click the Image Processors icon. The List of Image Processors for the Video Equipment page will open. The list is displayed in tabular form.

Note: You can also access the List of Image Processors from the List of Video Inputs page, by clicking the Image Processors icon.

For information about parameters, see “Add image processor” on page 99.

Figure 85: List of image processors



Add image processor

To add an image processor, follow these steps:

1. Open the List of Video Equipment as described in “List video equipment” on page 25.
2. Select the video equipment, with which you want to associate the new plugin, by checking the box in the leftmost column in the displayed list.
3. Click the Image Processors icon. The List of Image Processors for the Video Equipment page will open.
4. Click the New Image Processor icon. The New Image Processor for Video Equipment page will open.
5. Edit the parameters as needed and click OK to confirm the changes.

You can define the following parameters on this page:

Name	Define the name for the new image processor.
ISA	Plugins from ISA partners (non-embedded).

Plugin file	Select the plugin file from the drop down list. The files are stored in the Central Configuration Server as described in “User files configuration” on page 154.
AD	Activity detection plugin (embedded).
CMA	Camera maintenance agent plug-in (embedded).
Use Configuration File	Check this box to activate the configuration file field.
Configuration File	Select the configuration file from the drop down list. The files are stored in the Central Configuration Server as Server as described in “User files configuration” on page 154.
External Video Analytics Server	Select this radio button if you need to activate the video analytics server.
External Server	Define an IP address of the video analytics server.
External Port	Define the port number on which the stream is exposed to the analytics server.
Source	Input source.
Network / Local	Select the radio button to activate the Video Input Name and Network Protocol fields.
Video Input Name	Select the desired video input from the drop down list. To find out more about Video Input see “Video inputs configuration” on page 112.
Network Protocol	Select the desired network protocol from the drop down list.
File	Select this radio button if video source is a file stored locally on the selected video equipment.
Path to File	Define the path for the locally stored video file on the selected equipment
None	Select to disable image processing. Image Processor is still configured and can be activated / reactivated. **Note**: If this option is selected, Image Processor is not assigned to any video inputs.
Network	Only one protocol can be selected for each plugin. It is advised not to change the default values unless asked by the UTC Fire & Security support team. The only exception is the Multicast group address, which must be defined by the user.
TCP Port	This is the unique TCP port number for the plugin. (Default value: +12000).
Enable UDP	Check this box to activate the UDP options.
UDP Source Port	Define this if it is different from the default UDP port.

UDP Interface	Interface number of the network board. (Default value: 0)
TOS Value	Type-of-Service. Each IP Datagram has an 8-bit field called the TOS Byte, which represents the IP support for prioritization and Type-of-Service handling. See “Glossary” on page 177 for detailed explanation.
Enable Multicast	Check this box to activate IP Multicast options.
Multicast Group Address	Enter multicast group address (224.0.0.0 to 247.255.255.255) for the first channel. The addresses for the subsequent channels will be generated automatically by incrementing the address of the first channel. For example, if the address of the first channel in video equipment is set to 230.0.10.1, the fifth channel will assign 230.0.10.5. Keep in mind that all channels on all equipment on the network must have unique addresses.
Time to Live (TTL)	Internet's unbroken growth and recent fundamental topology changes within the international backbone occasionally cause some connectivity problems. In most cases, the problems could be identified as hosts sending out IP packets with too small initial TTL (Time To Live) values. In worse case, the maximum hop counts of up to 40 can be observed. TCP and UDP initial TTL values should be set to a "safe" value of at least 60. (Default value: 32)
IP Multicast Interface	IP Multicast sending interface number.
TOS Value	Type-of-Service. Each IP Datagram has an 8-bit field called the TOS Byte, which represents the IP support for prioritization and Type-of-Service handling. See “Glossary” on page 177 for detailed explanation.
Multicast port	Unique Multicast port. Cannot be set to 0.

Figure 86: New image processor

Edit image processor

To edit an image processor, follow these steps:

1. Open the List of Video Equipment as described in List video equipment” on page 25.
2. Select the video equipment, to edit the image processor associated with it.
3. Click the Image Processors icon. The List of Image Processors for the Video Equipment page will open.

4. Select the image processor name from the displayed list by selecting the corresponding check box.
5. Click the Edit icon and the Edit Plugins page will open.

Note: You can also edit all the image processors displayed in one step by checking the corresponding boxes and clicking the Edit icon. The Group Edit Image Processors page will open.

6. Edit the parameters as needed and click OK to confirm the changes.

For information about parameters, see “Add image processor” on page 99.

Delete image processor

To delete an image processor, follow these steps:

1. Open the List of Image Processors page as described in “List image processors” on page 98.
2. Select the image processor by checking the corresponding box.
3. Click the Delete icon. The image processor will be deleted from the list.

Video output actions

See “Video output actions” on page 130.

External data

The external data plugin introduces support for generic data streaming, storage and playback in VOS. External data refers to any data that does not necessarily describe audio/video data in VOS. The data stream is treated as any other stream (audio/video) by VOS.

The data feature is composed of three main modules:

- Data Source: Produces data that is inserted into a stream.
- Data Access Manager: A service that manages the different data sources.
- Data Sink: Receives and consumes the data stream.

The data stream may be:

- Authenticated by digitally signing the content with the equipment‟s private key.
- Recorded by the storage manager.
- Accessed live through the data access manager.
- Replayed through the storage access manager.
- Extracted through the storage access manager.

List of external data

All the external data features associated with the selected video equipment are displayed in a list.

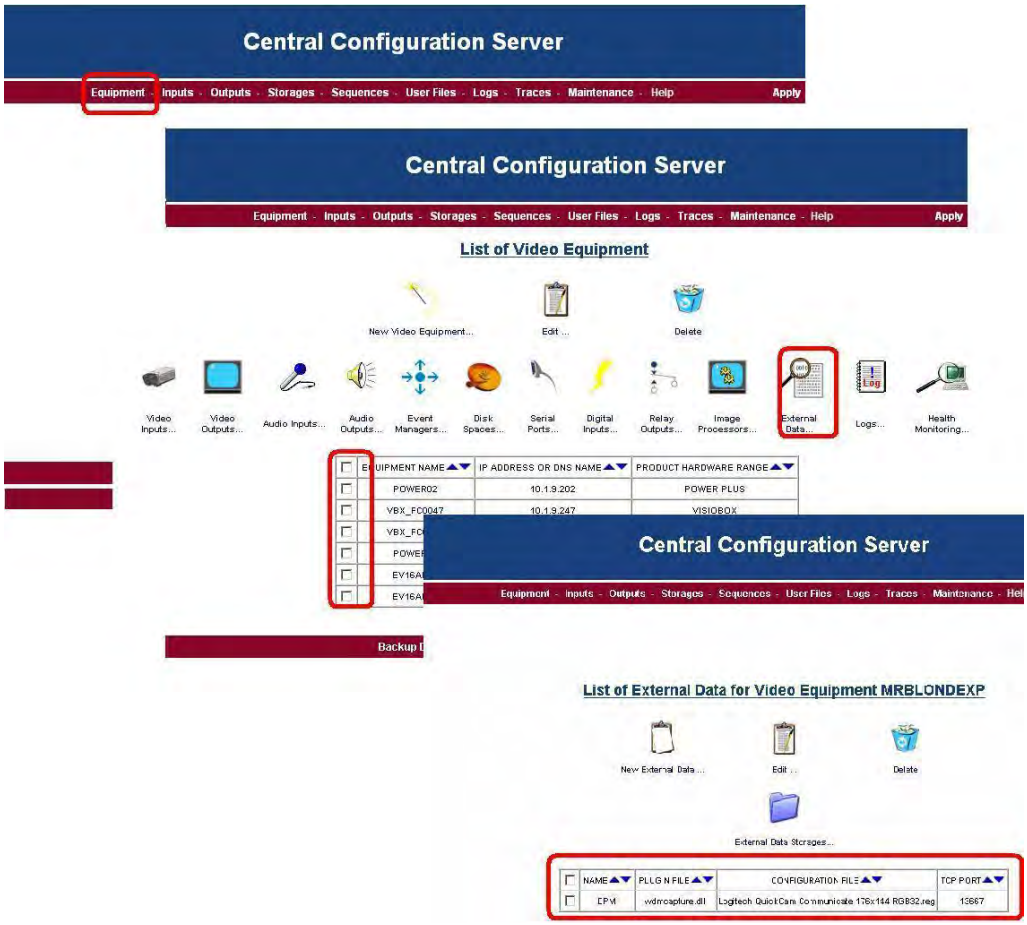
To list external data, follow these steps:

1. Open the List of Video equipment as described in “List video equipment” on page 25.
2. Select the equipment to display the list of external data associated with it by checking the box in the leftmost column of the displayed list.
3. Click the External Data icon. The List of External Data for Video Equipment page will open. The list is displayed in a tabular form.

On this page, all external data configured for the selected video equipment is displayed. You can:

- Display the list of all the external data associated with the selected video equipment.
- Add external data for the selected video equipment.
- Edit or delete any external data from the displayed list.
- Store external data.

Figure 87: List of external data



Add external data

To add external data to selected video equipment, follow these steps:

1. Open the List of External Data as described in “List of external data storage actions” on page 62.
2. Click the New External Data icon. The New External Data for the Video Equipment page will open.
3. Edit the parameters as needed and click OK to confirm the changes.

The new external data should now appear in the List of External Data for the current video equipment.

You can define the following parameters on this page:

Name	Define the name for the new external data.
Equipment	Select the equipment to which the external data is related.
Plugin File	Select the plugin file from the drop down list. The files are stored in the Central Configuration Server as described in “User files configuration” on page 154.
Use Configuration File	Check this box to activate the Configuration File field.
Configuration File	Select the configuration file from the drop down list. The files are stored in the Central Configuration Server as described in “User files configuration” on page 154.

Network

Note: Only one protocol can be selected for each plugin. It is advised not to change the default values unless asked by the UTC Fire & Security support team. The only exception is the Multicast group address that must be defined by the user.

TCP Port	This is the unique TCP port number for the plugin. (Default value: 13667 and higher)
Enable UDP	Check this box to activate the UDP options.
UDP Source Port	Define this if it is different from the default UDP port. (Default value: 0)
UDP Interface	Interface number of the network board. (Default value: 0)
TOS Value	Type-of-Service. Each IP datagram has an 8-bit field called the TOS Byte, which represents the IP support for prioritization and Type-of-Service handling. See “Glossary” on page 177 for detailed explanation.
Enable Fragmentation by Network Interface Card (NIC)	IP fragmentation done by network card. Otherwise done by VOS.
Enable Multicast	Check this box to activate IP Multicast options.
Multicast Group Address	Enter multicast group address (224.0.0.0 to 247.255.255.255) for the first channel. The addresses for the subsequent channels will be generated automatically by incrementing the address of the first channel. For example, if the address of the first channel in video equipment is set to 230.0.10.1, the fifth channel will have the address 230.0.10.5 assigned to it. Keep in mind that all channels on all equipment on the network must have unique addresses.
Time to Live (TTL)	Internet's unbroken growth and recent fundamental topology changes within the international backbone occasionally cause some connectivity problems. In most cases, the problems could be identified as hosts sending out IP packets with too small initial TTL (Time To Live) values. In worse case, the maximum hop counts of up to 40 can be observed. TCP and UDP initial TTL values should be set to a "safe" value of at least 60. (Default value: 32)
IP Multicast Interface	IP Multicast sending interface number.
TOS Value	Type-of-Service. Each IP datagram has an 8-bit field called the TOS byte, which represents the IP support for prioritization and Type-of-Service handling. See “Glossary” on page 177 for detailed explanation.
Multicast Port	Unique Multicast port. Cannot be set to 0.
Enable Fragmentation (for Multicast) by Network Interface Card (NIC)	IP fragmentation (for Multicast) done by network card. Otherwise done by VOS. **Note**: Only enables fragmentation of streaming data from disk.

Edit external data

To edit external data, follow these steps:

1. Open the List of External Data as described in “List of external data storage actions” on page 62.
2. Select the external data name from the displayed list by checking the box in the leftmost column.
3. Click the Edit icon. The Edit External Data page will open.
4. Edit the settings as needed and click OK to confirm the changes.

Note: Clicking the name in the displayed list also opens the edit page.

For more information about parameters, see “External data plugins folder” on page 155.

Delete external data

To delete external data, follow these steps:

1. Open the List of External Data as described in “List of external data storage actions” on page 62.
2. Select the external data by checking the corresponding box.
3. Click the Delete icon. The external data will be deleted from the list.

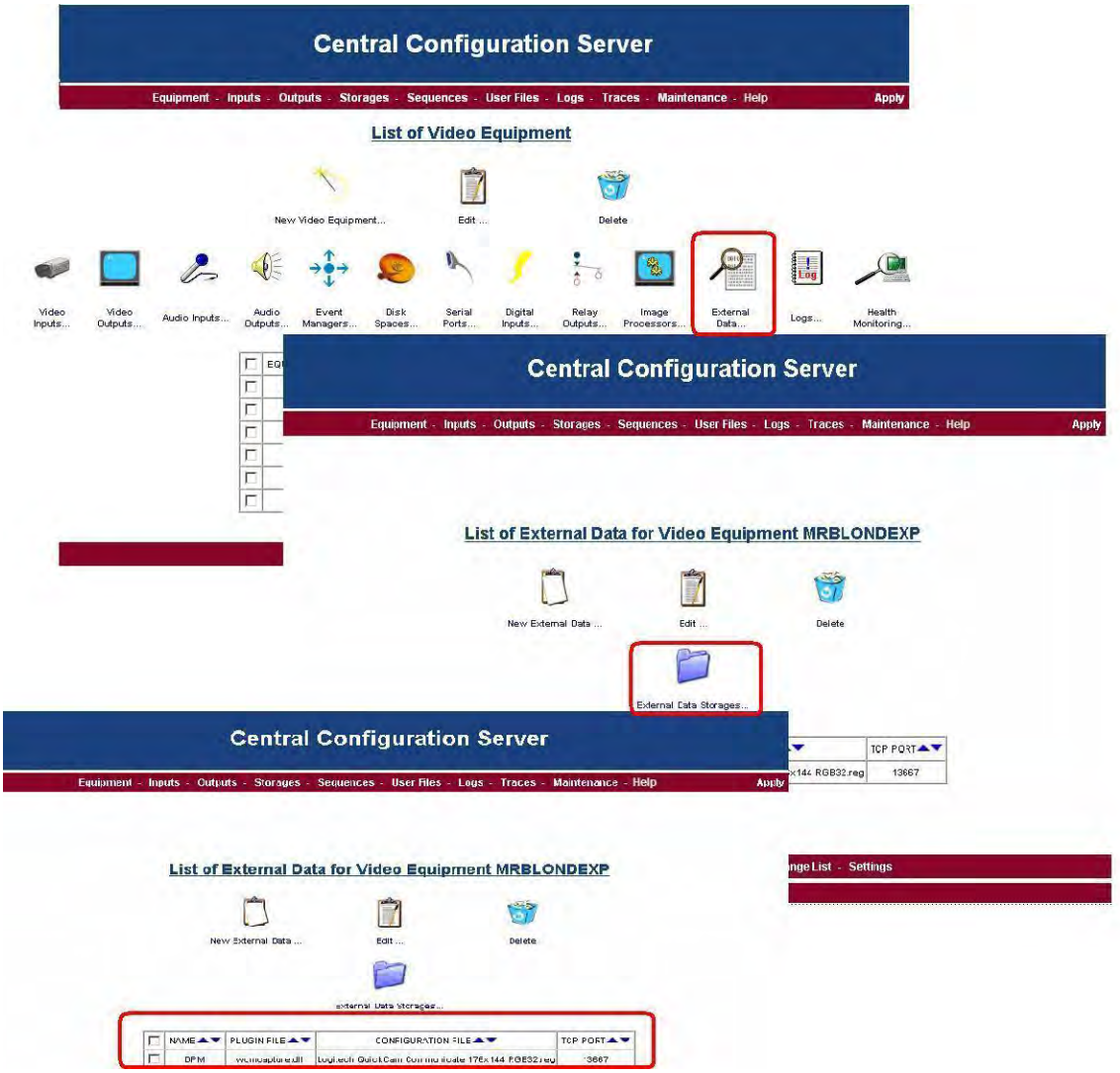
External data storages

To store external data, follow these steps:

1. Open the List of External Data as described in “List of external data storage actions” on page 62.
2. Select the external data name from the displayed list by checking the box in the leftmost column.
3. Click the External Data Storages icon. The External Data Storages page will open.

For more information about parameters, see “External data plugins folder” on page 155.

Figure 88: List of external data for selected equipment



Logs

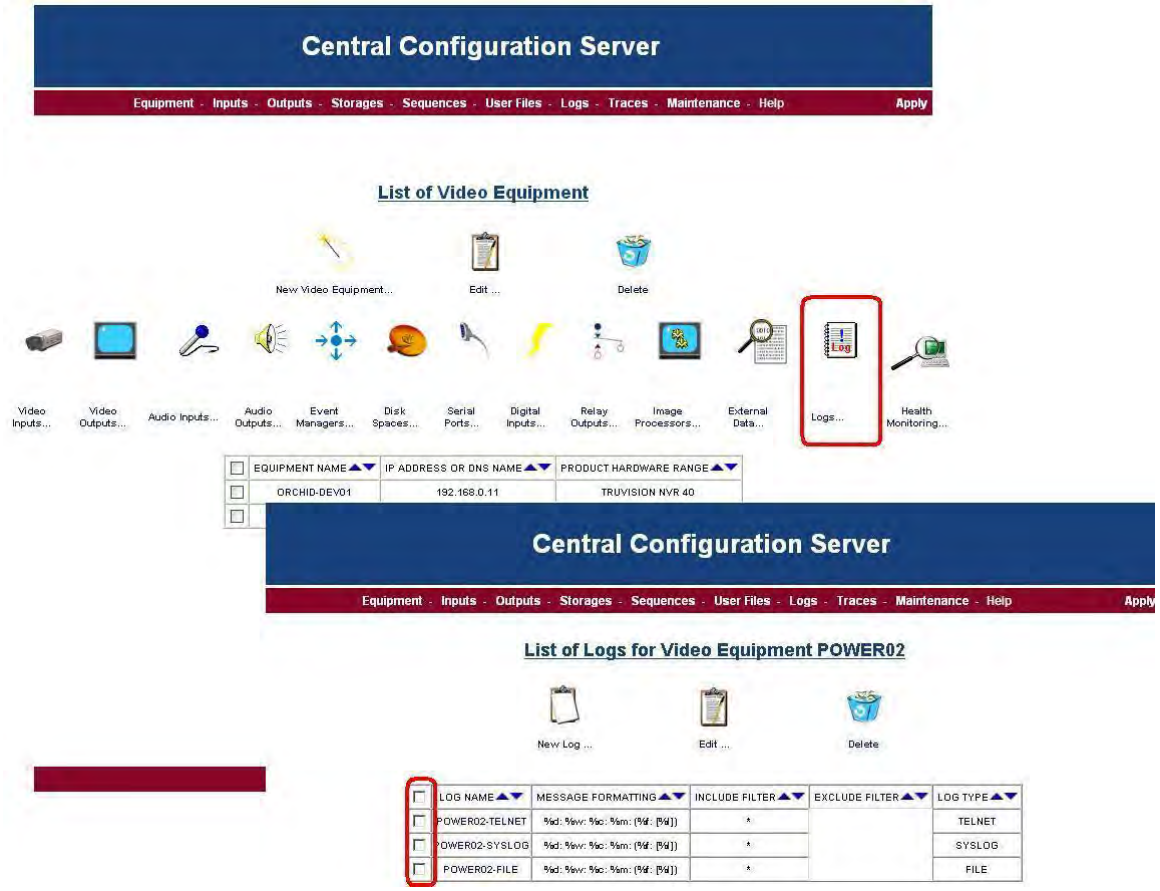
On this page, you can create, edit, and delete logs for the selected equipment.

To list logs for selected equipment, follow these steps:

1. Open the List of Video Equipment as described in “List video equipment” on page 25.
2. Select the video equipment, to see the list of logs associated with it.
3. Click the Logs icon. The List of Logs for Video Equipment page will open.

For more information about Logs, see “List logs” on page 164.

Figure 89: List of logs for selected equipment



Health monitoring

You can monitor the general condition of any video equipment.

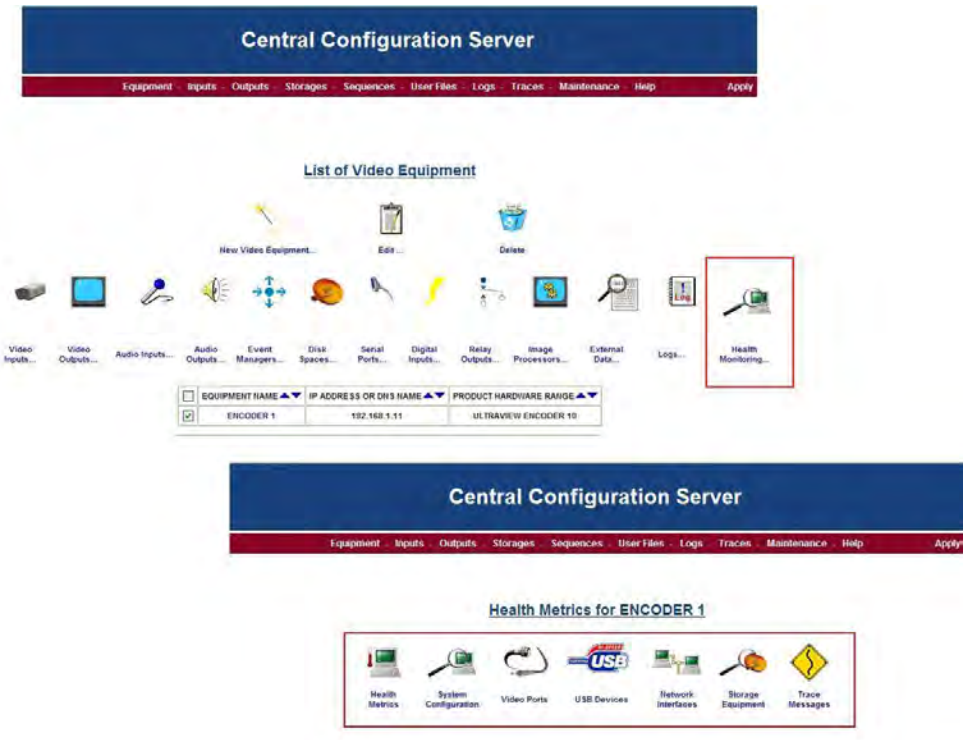
To view health monitoring information, follow these steps:

1. Open the List of Video equipment as described in “List video equipment” on page 25.
2. Click the video equipment name from the displayed list. The page displaying different types of information will open.
3. Click the relevant icon to open the page showing detailed health monitoring information

The following information is provided by the system:

Health Metrics	Displays information about motherboard sensors.
System Configuration	Displays information about installed video codec boards.
Video Ports	Displays information about video channels.
USB Devices	Displays information about USB devices. See section USB tree location below, for more information.
Network Interfaces	Displays information about the network adapters.
Storage Equipment	Displays information about the hard disks.
Trace Messages	You can specify the debug output message by selecting the flag for each module. The debug message update is dynamic. **Note**: The UTC Fire and Security support team uses this feature.

Figure 90: Health monitoring



USB tree location

The information provided in the USB tree location page is important when you want to configure USB modules (digital input/output, audio). You need to identify and note the USB tree location information for each module.

The last number always refers to the module's position.

For example, 6/3 refers to modules #3 and 6/1 refers to the module #1

Note: Refer to the product‟s user manual to determine the USB position based on their number.

Figure 91: USB tree location

Video inputs configuration

List video inputs

The term Video Input refers to a video channel on UltraView video codec board that has been defined as Video Input Channel, that is, it will be used for connection of input video sources, such as IP cameras, analog PAL/NTSC cameras, and IP encoders. Each video input channel is completely independent.

The video inputs can be displayed all together or as video inputs for one video device.

List all video inputs

To list all video inputs:

1. Click Input on the menu bar from any page. The List of Video Inputs page will open.

On this page, all video input channels for the site are displayed.

For information about parameters, see “Add video input” on page 114 and “Add video encoder” on page 120.

Figure 92: List of video inputs

Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help Apply
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help Apply
List of Video Inputs
New Video Input ...
New Video Encoder...
Edit ...
Delete
Sequence Items...
Video Storages...
Image Processors...
Video Output Actions...
EQUIPMENT INPUT NAME CHANNEL MASTER INPUT NUMBER STREAMING CHANNEL STREAMING FPS TCP PORT SCALE BANDWIDTH
T1 T1-01 1 Y - - 25 5001 FULL 3000
T1 T1-02 2 Y - - 25 5002 FULL 3000
T1 T1-03 3 Y - - 25 5003 FULL 3000

List video inputs for specific video equipment

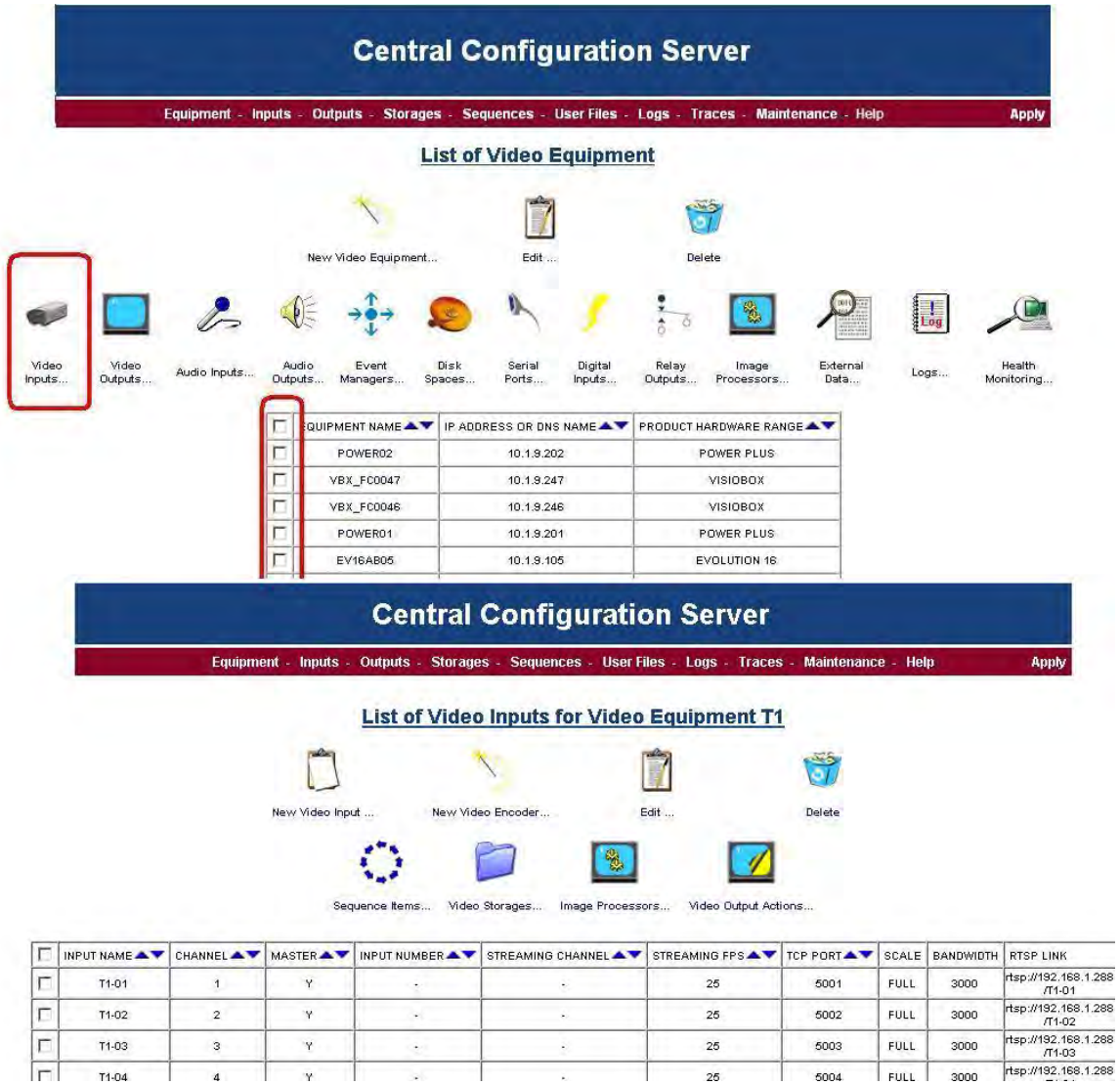
To list video inputs for selected equipment, follow these steps:

1. Click Equipment on the menu bar from any page. The List of Video Equipment page will open.
2. Select the equipment name by checking the box in the leftmost column, whose input list you want to display.
3. Click Video Input, the List of video Inputs for Video Equipment page will open.

On this page, the video inputs on the selected video equipment are displayed.

For information about parameters, see “Add video input” on page 114 and “Add video encoder” on page 120.

Figure 93: List of video inputs for specific video equipment



Add video input

You can add a video input using two methods, through the List of Video Inputs page (see “Add video input from the list of video inputs” below), or through the List of Video Input for Video Equipment page (see “

Add video input to specific video equipment” on page 118).

Note: The first equipment to be configured will automatically be set as a master and the next equipment will be slaves. In case the master is removed, one of the slaves will automatically be promoted to master. The master option enables the Input Format, Codec, and Constant Bandwidth options.

For information about video equipment parameters, see “Edit video equipment” on page 33.

Video channel numbering

The video channel numbers (in the video equipment) are assigned to the video channels by the motherboard. The channels are usually numbered from left to right on the device. Refer to hardware-specific documentation for correct video channel numbering, for example, the UltraView Recorder 60 User Manual.

Add video input from the list of video inputs

To add a video input, follow these steps:

1. Open the List of Video Inputs as described in “List video inputs” on page 112.
2. Click the New Video Input icon. The New Video Input page will open.
3. Edit the parameters as needed and click OK to confirm the changes.

The new video input channel should now appear in the List of Video Inputs page.

You can define the following parameters on this page:

Input Name and Channel	.
Input Name	Unique short name for referencing the input channel. Avoid names with point characters (.) since this might cause problems with some OS. The name must be different from "new".
Channel	Video channel number in the video equipment chassis. Unique ID that identified video inputs.
Capture parameters for IP camera input	You must select IP Camera Video Input.
IP Camera Input	You must select IP camera Input radio button.

Type	Select device type: • GE IP Camera (Sym) • GE IP Camera (CamPlus) • GE IP Camera (CamPlus 2) • AXIS IP Camera (VGA) • AXIS IP Camera (4CIF) • Panasonic IP Camera • Acti IP Camera • Generic IP Camera (PSIA) • Truvision Camera • Truvision Encoder • Generic IP Camera (OnVif) **Note**: For a complete list of supported IP cameras and encoders, refer to the IP Devices Integration Manual.
IP Camera Model	The camera or encoder model, based on the type selected.
Input Format	PAL(BGHI) or NTSC(M)
Input Number	The number of analog inputs used by the encoder (enabled only for encoders).
Address or DNS Name	The IP address or name of the camera or encoder.
Streaming Channel	The channel that will stream the video. This can be either the main channel or a sub-stream channel (enabled only for Truvision cameras and encoders).
Codec	H-264, MJPEG, and MPEG4-ASP. This selection applies only to dual-stream cameras and makes it possible to select a particular video stream of a specific camera or encoder.
Capture Sampling	Sampling resolution of the selected device.
Capture FPS	Fields per Second, rate at which the video compression engine streams the video. Selectable values depend on the video input format.
Target Bandwidth	Define the target bandwidth from the drop down window, which will influence the video compression engine to attain the constant bandwidth rate. The bandwidth rate is customizable.
GOP Size - Fastest Access Time/Best Quality	Tradeoff between a higher quality (increased size of GOPs) and lower effective bandwidth (access time on the network). The default value is recommended for an optimal tradeoff.
Username	User name of the administrator of the specific camera or encoder.
Password	Password of the administrator of the camera or encoder.
Rotation	Angle of rotation; some cameras can be mounted upward or downward, depending of their mounting options.
Compression	Compression rate. For optimal quality, set value to 0 (Default value is 50)
Embedded Motion Detection	Motion detection data from the IP camera is fed into the system to trigger events (uncheck by default).
Capture parameters for analog input	You must select Analog Video Input.

Input Format	PAL (BGHI) or NTSC (M)
Full Target Bandwidth	Define the target bandwidth from the drop down window, which will influence the video compression engine to attain the Constant Bandwidth rate. The bandwidth rate is customizable.
CIF Target Bandwidth	Define the target bandwidth from the drop down window that will influence the video compression engine to attain the Constant Bandwidth rate. The bandwidth rate is customizable.
QCIF Target Bandwidth	Define the target bandwidth from the drop down window that will influence the video compression engine to attain the Constant Bandwidth rate. The bandwidth rate is customizable.
Encoding Mode for Full	Standard: Stream progressive frames (default) 25/30p. Low bitrate: Stream 2CIF format (1 field only), to save bandwidth (2CIF, 25/30i). High Quality: Stream Interlaced fields to optimize video output quality (FULL, 50/60i).
Fast Access Time	Reduce GOP size from 16 to 8 for better access time. Quality/Bandwidth will impair GOPs (unchecked by default).

Note: For analog cameras at least one of the three options (FULL, CIF or QCIF) must be selected. All of them can be selected. The target bandwidth is adjusted automatically.

Streaming parameters	
Streaming Resolution	Select the streaming resolution based on the capabilities of the camera.
Include Lower Resolution Option	If enabled, the spatial sub-resolution will be encapsulated within the video stream (for example, if the highest spatial resolution is FULL, enabling lower resolution will embed CIF & QCIF). It is strongly advised that you keep this option activated. Otherwise, the scalability possibilities would be reduced, although the effective bandwidth might increase. **Note**: Only modify if needed.
Streaming FPS	Fields per Second, rate at which the video compression engine streams the video. Selectable values depend on the video input format and on whether temporal compression is selected or not.
Approximate effective Bandwidth	Approximate calculated effective bandwidth.
Network	
TCP Port	Define the TCP control socket port number. (Default value: 5001 and higher)
Enable TCP	Enable TCP connections. UDP must be disabled.
Enable UDP	Enable UDP connections.
UDP Source Port	Useful for port based QoS. (Default value: 0)

UDP Interface	UDP sending interface. The LAN1 connector corresponds to IP Interface 1 and LAN2 to IP Interface 2.
TOS Value	Type-of-Service. Each IP datagram has an 8-bit field called the TOS byte, which represents the IP support for prioritization and Type-of-Service handling. See “Glossary” on page 177 for detailed explanation.
IP Fragmentation by Network Interface Card (NIC)	The IP fragmentation will be done directly by the network card. Otherwise, it will be done by VOS.
Enables IP Multicast	**Note:** Consult the network administrator to make sure the network is IP Multicast enabled before checking this option.
Multicast Group Address	Enter multicast group address (224.0.0.0 to 247.255.255.255) for the first channel. The addresses for the subsequent channels will be generated automatically by incrementing the address of the first channel. For example, if the address of the first channel in video equipment is set to 230.0.10.1, the fifth channel will have the address 230.0.10.5 assigned to it. Keep in mind that all channels on all equipment on the network must have unique addresses.
Time to Live (TTL)	Internet's unbroken growth and recent fundamental topology changes within the international backbone occasionally cause some connectivity problems. In most cases, the problems could be identified as hosts sending out IP packets with too small initial TTL (Time To Live) values. In worse case, the maximum hop counts of up to 40 can be observed. TCP and UDP initial TTL values should be set to a "safe" value of at least 60. (Default value: 32)
IP Multicast Interface	IP Multicast sending interface number.
TOS value	Type-of-Service. Each IP datagram has an 8-bit field called the TOS Byte, which represents the IP support for prioritization and Type-of-Service handling. See “Glossary” on page 177 for detailed explanation.
Multicast Port	Unique Multicast port.
IP Fragmentation (for Multicast) by Network Interface Card (NIC)	The IP fragmentation (for Multicast) will be done directly by the network card. Otherwise it will be done by VOS. **Note**: Only enables fragmentation of live streaming data.
Alarm Management	
Disable events/SNMP Traps linked with the video signal	Makes it possible to deactivate events/SNMP traps linked to the loss of the video signal.
PTZ Port Association	
PTZ Port Control	Makes it possible to use a specific PTZ control port to control several cameras. This information is saved into a particular device and returned by the UltraView SDK call getParams() of a video port. This is useful in case of master and slave cameras.

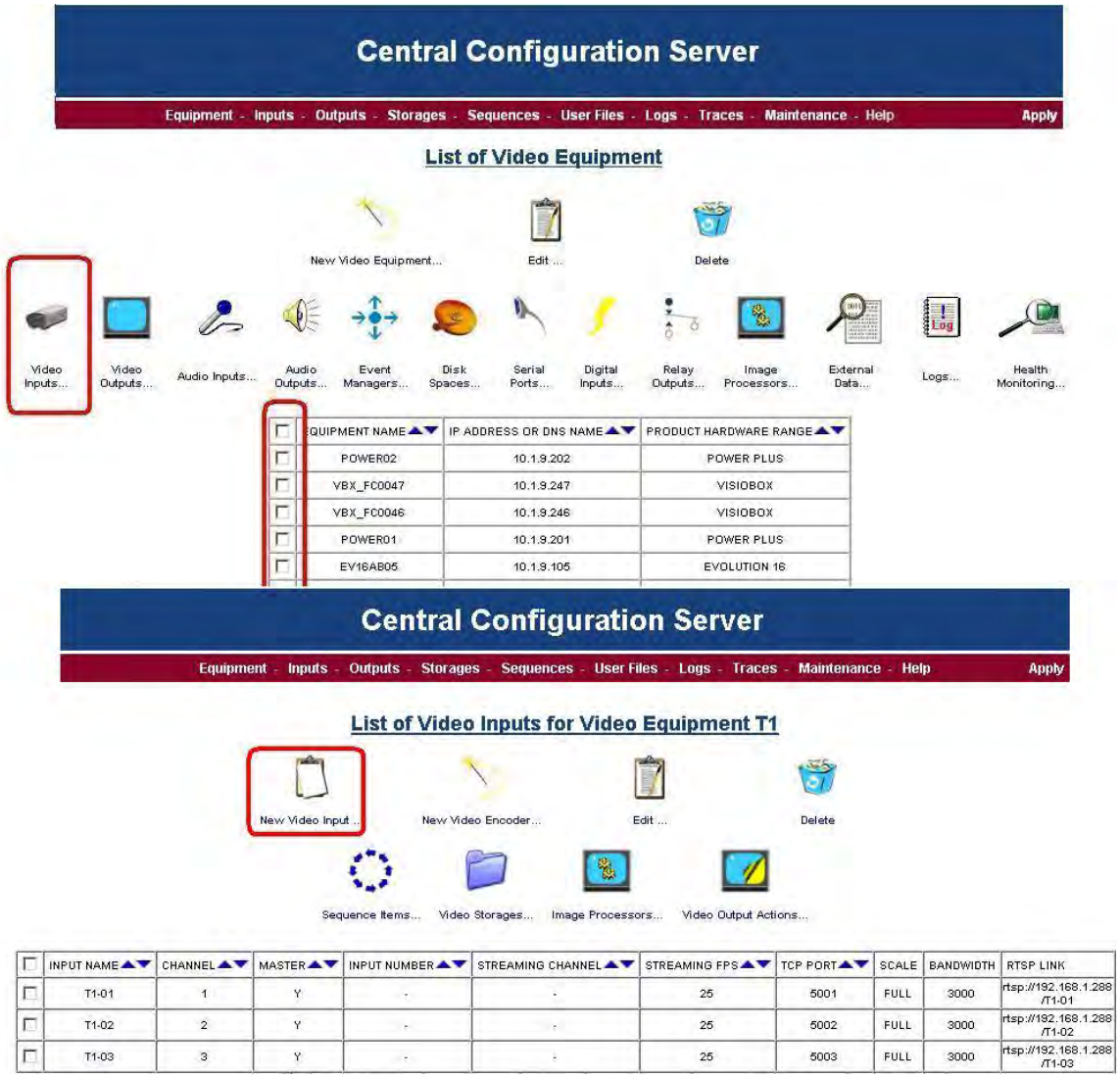
Add video input to specific video equipment

To add a video input to selected equipment, follow these steps:

1. Open the List of Video Inputs for Video Equipment as described in “List video inputs for specific video equipment” on page 113.
2. Select the equipment name by checking the box in the leftmost column, whose input list you want to display.
3. Click Video Input icon, the List of video Inputs for Video Equipment page will open.
4. Click the New Video Input icon. The New Video Input for Video Equipment page will open.
5. Edit the parameters as described in the “To add a video input” on page 114 and click OK to confirm the changes.

The new video input channel should now appear in the List of Video Inputs for Video Equipment.

Figure 94: List of video inputs for video equipment



Activate embedded motion detection

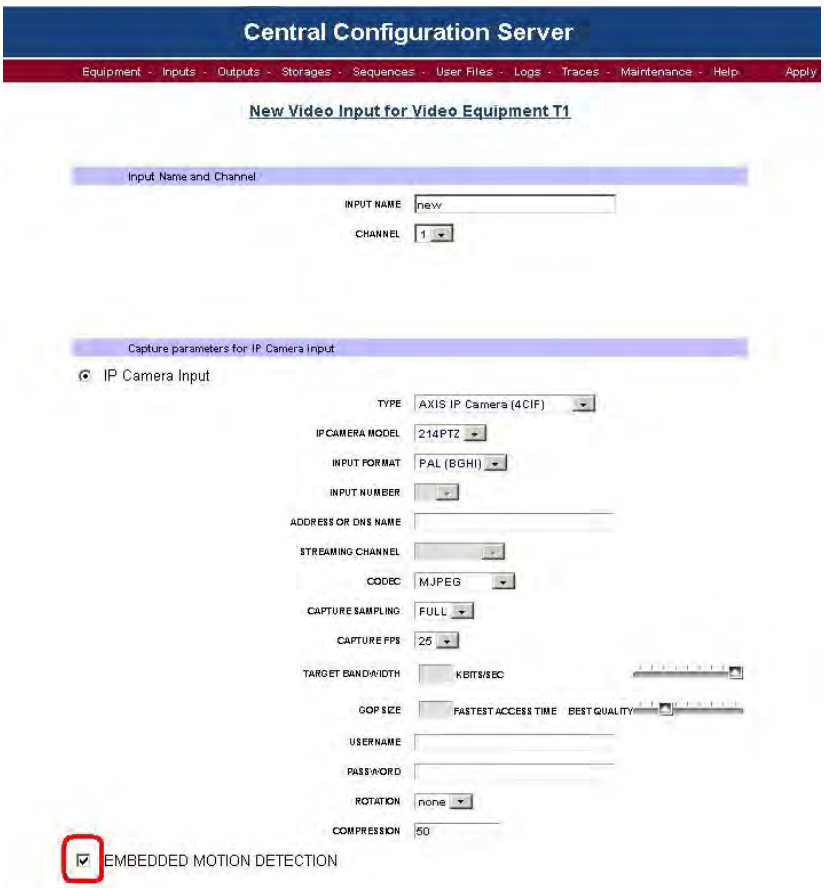
Many IP cameras have an onboard and embedded motion detection support. This feature in UltraView CCS allows the user to enable this function on the IP camera. This feature can be used instead of using external plugins that require additional CPU cycles.

To enable motion detection support, follow these steps:

1. Open the List of Video Inputs as described in “Add video input” on page 114.
2. Click the New Video Input icon. The New Video Input page will open.
3. Select Embedded Motion Detection box to activate the feature, see Figure 95 below.
4. Click OK to confirm the changes.

Note: To use the embedded detection option, you must set the motion detection (MD) area on the web server of the device being configured.

Figure 95: Embedded motion detection activation



Add video encoder

Add a video encoder to video equipment

You can add encoder video inputs using two methods, through the “Add video input” procedure on page 114 or by clicking Inputs on the menu bar to open the List of Video Inputs page and selecting New Video Encoder.

Add new encoder video inputs

This procedure allows the user to set all encoder inputs at one time, decreasing configuration time:

1. Open the List of Video Inputs window by clicking Inputs on the menu bar.
2. Click the New Video Encoder icon. The New Video Encoder wizard window will open.
3. Set the parameter settings for the encoder in the configuration wizard windows.
4. When done, click Finish to confirm the settings for the new video encoder inputs. The new video encoder inputs should now appear in the List of Video Inputs for Video Equipment.

OR

This procedure allows the user to set encoder video inputs, one at a time:

1. Open the List of Video Inputs for Video Equipment window as described in the section “List video inputs for specific video equipment” on page 113
2. Select the equipment name by checking the box in the leftmost column, whose input list you want to display.
3. Click Video Input icon, the List of video Inputs for Video Equipment window will open.
4. Click the New Video Encoder icon. The New Video Encoder for Video Equipment window will open.
5. Define the parameters as described in the section “To add a video input” on page 114.
6. When done, click OK to confirm the settings for the selected video equipment.

Figure 96: Adding video encoder inputs

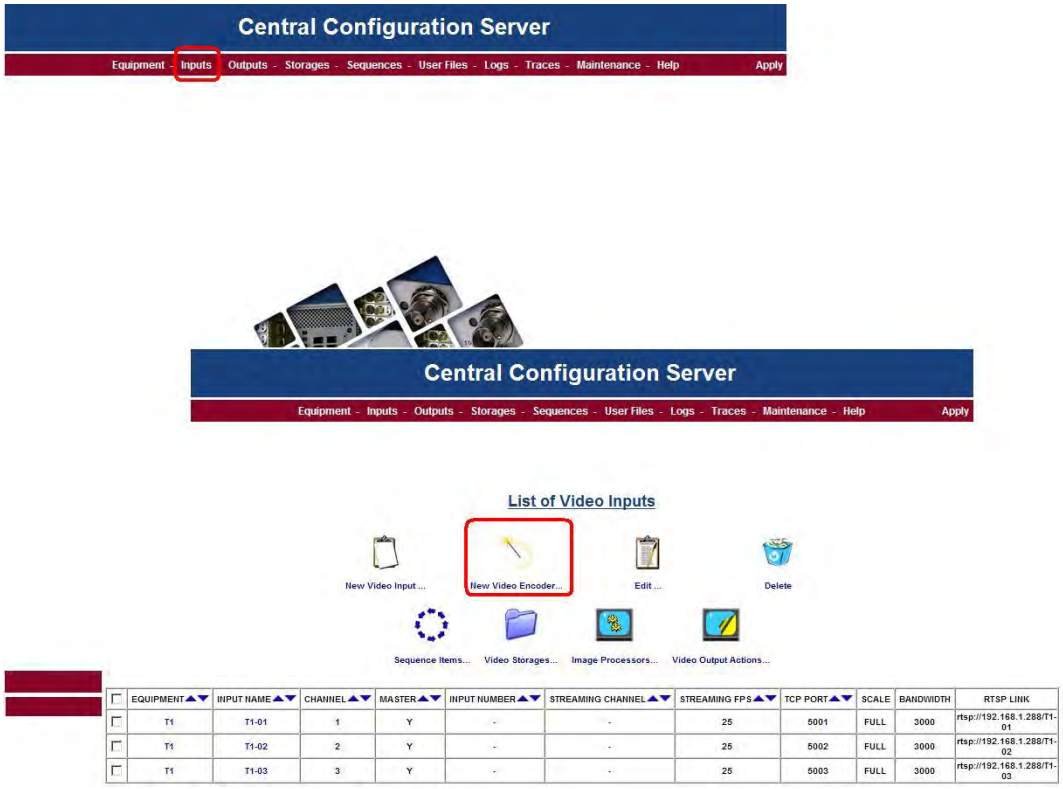
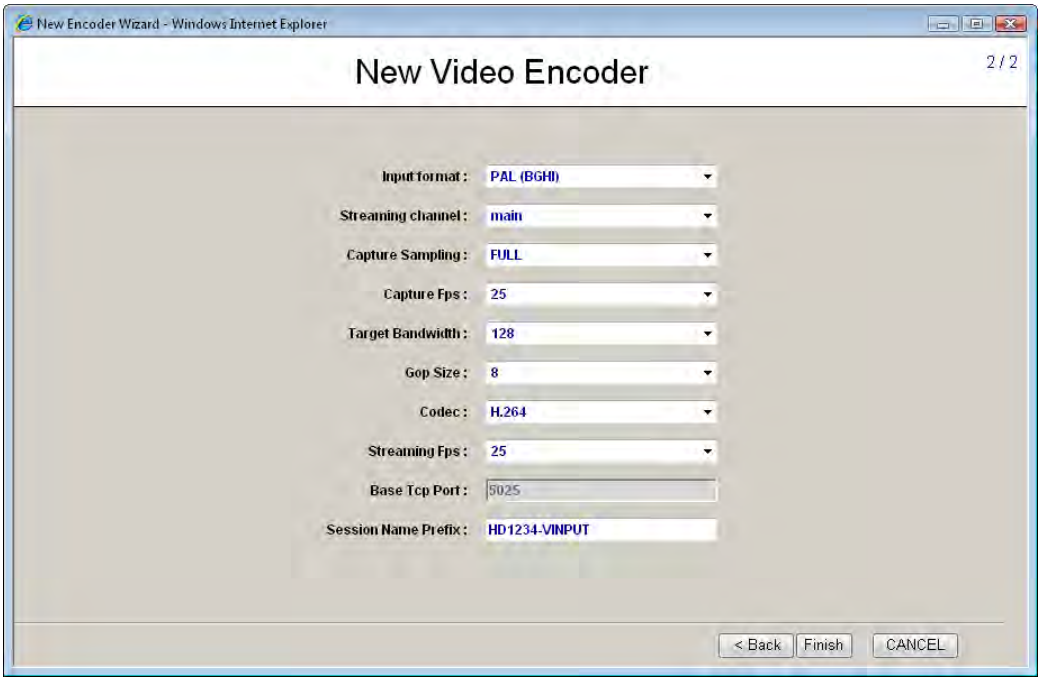

Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help Apply
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help Apply
List of Video Inputs
New Video Input ...
New Video Encoder...
Edit ...
Delete
Sequence Items...
Video Storages...
Image Processors...
Video Output Actions...
EQUIPMENT INPUT NAME CHANNEL MASTER INPUT NUMBER STREAMING CHANNEL STREAMING FPS TCP PORT SCALE BANDWIDTH RTSP LINK
T1 T1-01 1 Y - - 25 5001 FULL 3000 rtsp://192.168.1.288/T1-01
T1 T1-02 2 Y - - 25 5002 FULL 3000 rtsp://192.168.1.288/T1-02
T1 T1-03 3 Y - - 25 5003 FULL 3000 rtsp://192.168.1.288/T1-03

Figure 97: Video encoder inputs configuration wizard 1

New Encoder Wizard - Windows Internet Explorer
New Video Encoder
1 / 2
Equipment : HD1234
Input Name Prefix : HD1234-VINPUT
Type : TruVision Encoder
IP Encoder model : TVE400
Number of Inputs : 4
IP address or DNS name :
Username :
Password :
Next Finish CANCEL

Figure 98: Video encoder inputs configuration wizard 2



Below is a table that describes the various configuration options needed to configure analog video inputs through the TruVision IP video encoder. When using the wizard for configuring inputs, all inputs are configured at the same time and have the same settings.

Equipment	Type of equipment. Choose from the scroll menu.
Input Name Prefix	Unique short name for referencing the input channel. Avoid names with point characters (.) since this might cause problems with some OS. The name must be different from "new".
Type	Type of encoder.
IP Encoder Model	Select encoder model: • TVE-400 • TVE-800
Number of Inputs	The number of analog inputs used by the encoder.
IP Address or DNS Name	The IP address or name of the encoder
Username	User name of the administrator of the specific encoder.
Password	Password of the administrator of the encoder.
Input Format	PAL (BGHI) or NTSC (M)
Streaming Channel	The channel that will stream the video. This can be either the main channel or a sub-stream channel.
Capture Sampling	Sampling resolution of the selected device.
Capture FPS	Fields per Second, rate at which the video compression engine streams the video. Selectable values depend on the video input format.

Target Bandwidth	Define the target bandwidth from the drop down window, which will influence the video compression engine to attain the constant bandwidth rate. The bandwidth rate is customizable.
GOP Size - Fastest Access Time/Best Quality	Tradeoff between a higher quality (increased size of GOPs) and lower effective bandwidth (access time on the network). The default value is recommended for an optimal tradeoff.
Codec	Only H-264 supported. This selection applies only to dual-stream cameras and makes it possible to select particular video stream of a specific video device.
Streaming FPS	Fields per Second, rate at which the video compression engine streams video.
Base TCP port	Define the TCP Port number for the sending of data. (Default value: 5001 and higher)
Session Name Prefix	Unique session name prefix for referencing the session input channel. Four input channels can be set at one time.

Edit video input

You can edit the video inputs individually or in a group.

To edit a video input, follow these steps:

1. Open the List of Video Inputs as described in “List video inputs” on page 112.
2. To edit an individual video input select the input name of the video input to open the Edit Video Input page.
3. To edit several video inputs at the same time, for example, to set the same codec parameter values on all channels, select the video inputs by checking the corresponding boxes in the leftmost column. You can select all the video inputs in one click by checking the box in the header section.
4. Click Edit, the page Group Edit Video Inputs will open.
5. Edit the parameters as needed and click OK to confirm the changes.

For information about parameters, see “Add video input” on page 114.

Note: To move the selected video input to other video equipment, just edit the equipment parameter. You can also create a new video equipment definition from here by clicking New.

Delete video input

To delete a video input, follow these steps:

1. Open the List of Video Inputs page as described in “List video inputs” on page 112.
2. Select the video input by checking the corresponding box.
3. Click the Delete icon. The video input will be deleted from the list.

Sequence items

See “Delete video sequence

To delete a video sequence, follow these steps:

1. Open the List of Sequence page as described in “List video sequences” on page 147
2. Select the sequence by checking the corresponding box.
3. Click the Delete icon. The sequence will be deleted from the list.

Sequence Items” on page 149.

Video storages

See “Storages configuration” on page 137.

Image processors

See “Video processing folder” on page 160.

Video outputs configuration

List video outputs

The term Video Output refers to a video channel on a video codec board that has been defined as Video Output Channel, that is, it will be used for redirection of decompressed video streams to PAL/NTSC analog monitors.

The video outputs on the site can either be displayed all together in one list, or in separate lists with the video output channels defined for particular video equipment.

Note: You can only configure video outputs with UltraView Decoder 10 and UltraView Recorder 40D.

List all video outputs

To list all video outputs, follow these steps:

1. Click Output on the menu bar from any page. The List of Video Outputs page will open.

Figure 99: List of video outputs

On this page, all video output channels on the site are displayed. It is also possible to create, edit, and delete both video outputs and video output actions on this page.

For information about parameters, see “Add video output” on page 126.

List video outputs for specific video equipment

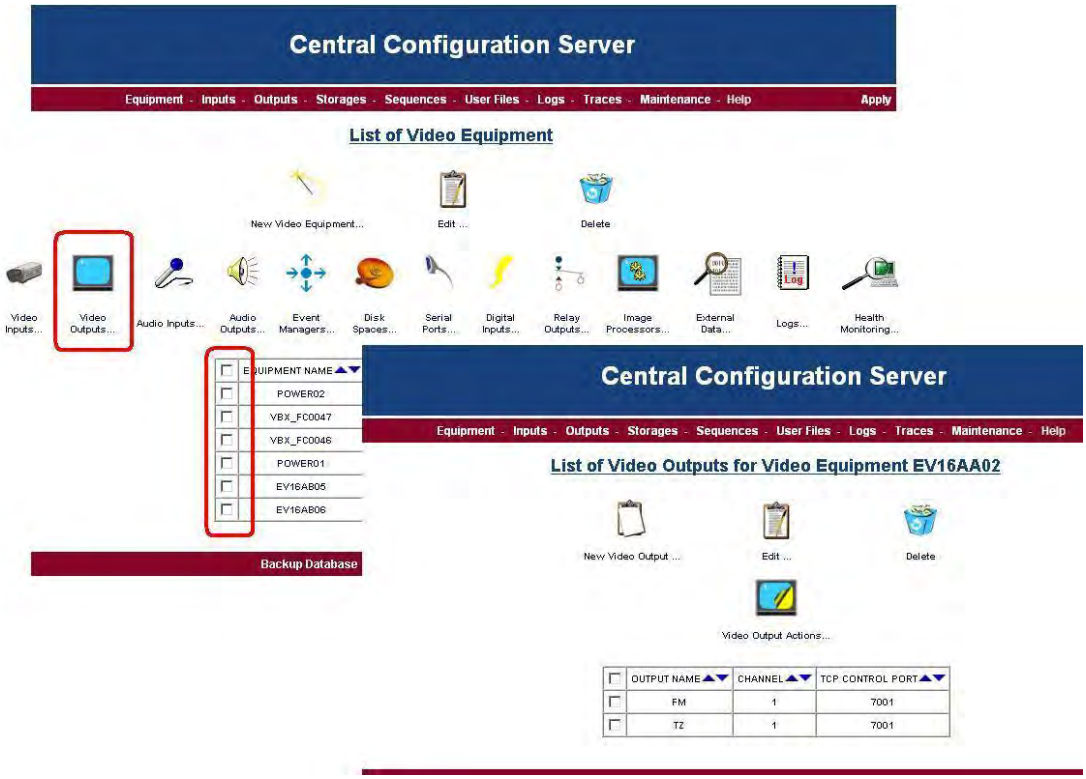
To list video outputs for specific video equipment, follow these steps:

1. Click Equipment on the menu bar from any page. The List of Video Equipment page will open.
2. Select the equipment name by checking the corresponding box in the leftmost column, whose output list you want to display.
3. Click the Video Output icon, the List of video Outputs for Video Equipment page will open.

On this page, all the output channels associated with the selected video equipment are displayed. It is also possible to create, edit and delete both video outputs and video output actions on this page.

For information about parameters, see “Add video output” below.

Figure 100: List of video outputs for selected equipment



Add video output

You can add the video outputs in two ways, either through the List of Video Output page or through the List of Video Output for Video Equipment page.

To add a video output, follow these steps:

1. Open the List of Video Outputs as described in the section “List all video outputs” on page 125.
2. Click the New Video Output icon. The New Video Output page will open.

3. Edit the parameters as needed and click OK to confirm the changes.

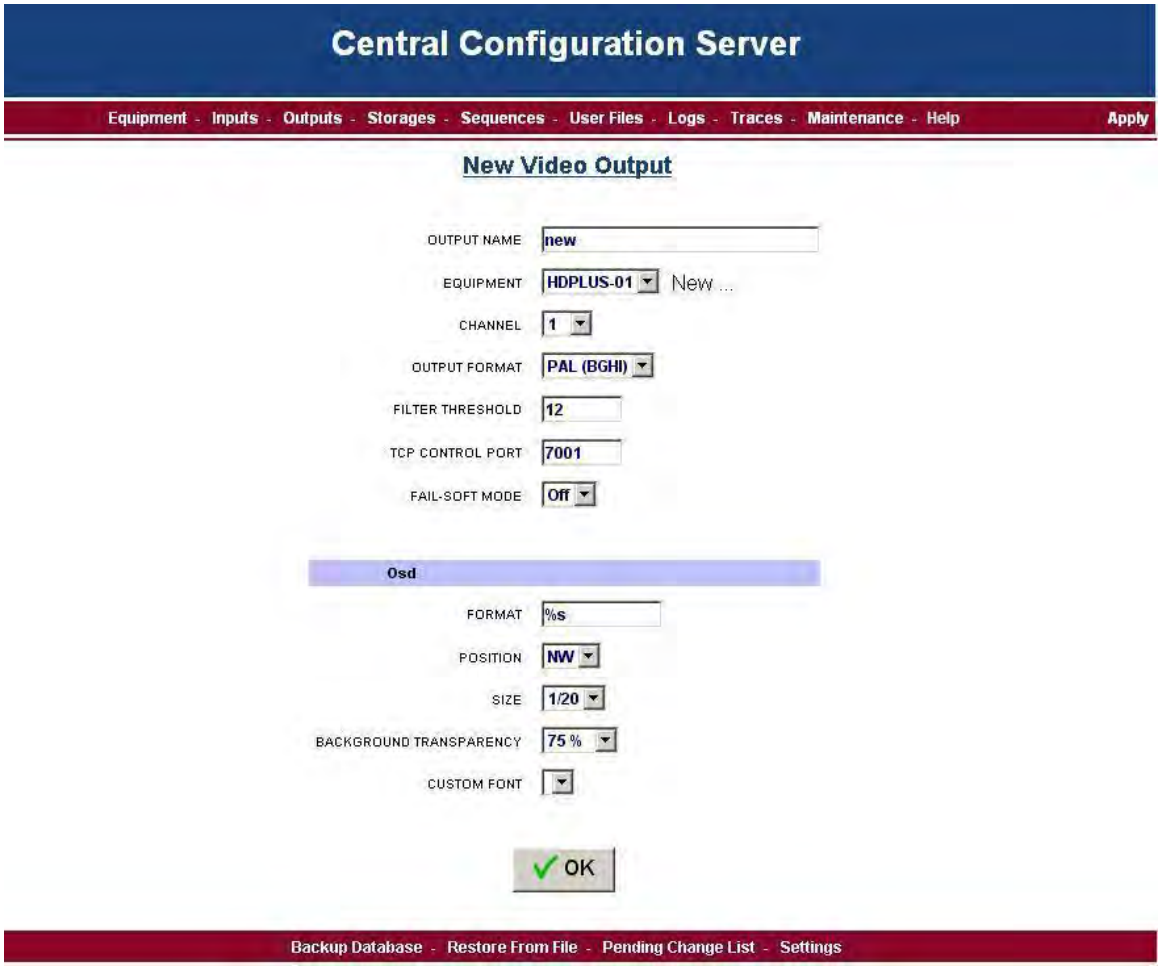
The new output channel should now appear in the List of Video Outputs.

Note: If you want to associate this new video output to new video equipment, you can create new video equipment by clicking New. Define all the parameters and click OK. You will have to scroll down to see the newly created video equipment.

You can define the following parameters on this page:

Output Name	Unique short name for referencing the output channel.
Equipment	Select the equipment from the drop down list, for which you are creating this video output channel.
Channel	Define the video channel number in the video equipment. See “Video channel numbering” on page 114”.
Output Format	Define the output format from the drop down list.
TCP Control Port	Define the TCP control port number. (Default port: 7001)
Network Interface	The interface to be used for video output.
Fail Soft Mode	Switches back to default cycle if the network connection to a connected Monitor Manager Controller (UltraView SDK) is lost.
OSD	Set On Screen Display.
Format	You can define four options (Text: Any text, %s: Source, %d: Date and %t: Time).
Position	You have nine possibilities to position the display on the screen (NW, N, NE, W, C, E, SW; S, SE). E, W, N, S and C stand for East, West, North, South and Center.
Size	You can define the size of the display from this field, 1/5 being the maximum and 1/20 the minimum size.
Background Transparency	Allows you to set the transparency percentage of the OSD.
Custom Font	Allows you to choose one of the uploaded fonts (User Files ->fonts) as OSD font.

Figure 101: New video output



To add a video output to selected video equipment, follow these steps:

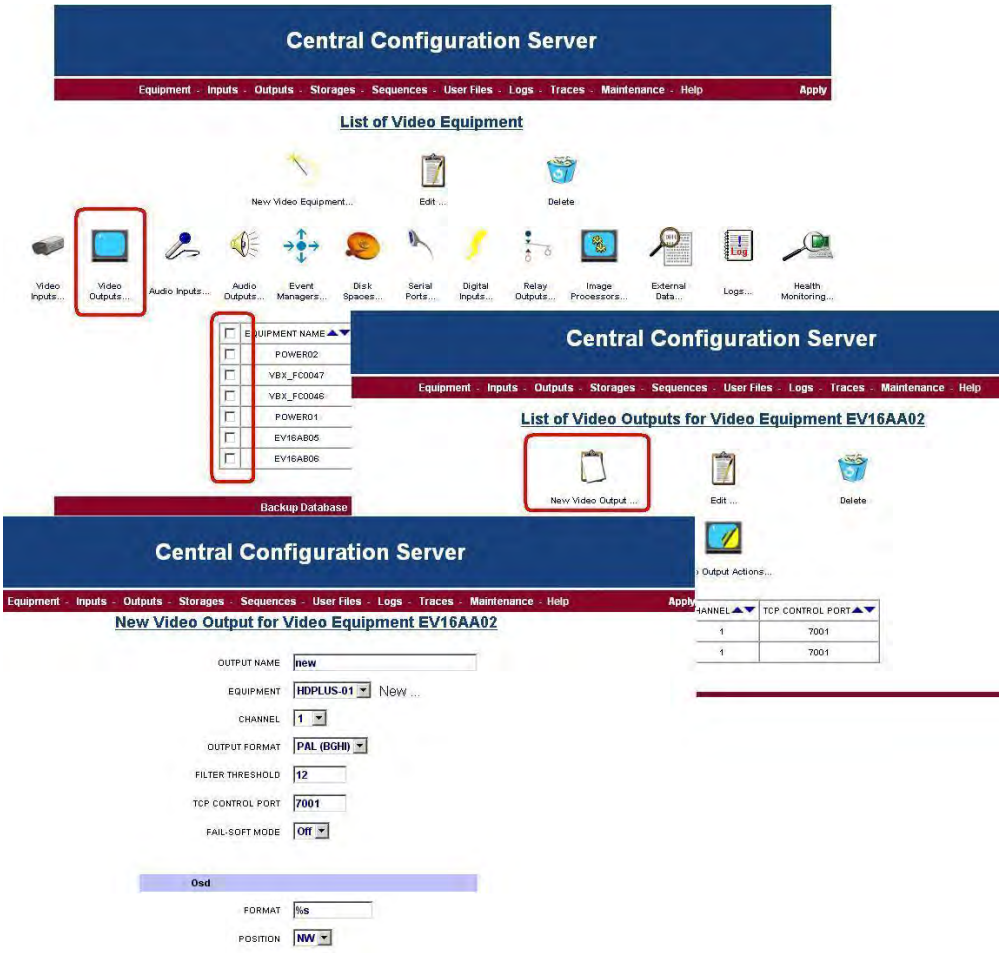
1. Open the List of Video Outputs for Video Equipment as described in the “List video outputs for specific video equipment” on page 126.
2. Select the equipment name by checking the corresponding box in the leftmost column, whose output list you want to display.
3. Click the Video Output icon, the List of video Outputs for Video Equipment page will open.
4. Click the New Video Output icon, the New Video Output for Video Equipment page will open.
5. Edit the parameters as needed and click OK to confirm the changes.

The new output channel should now appear in the List of Video Outputs for Video Equipment.

For information about parameters, see “To add a video output” on page 126.

Note: As the output is created for the selected video equipment, the equipment name will not be displayed.

Figure 102: New video output for video equipment



Edit video output

You can edit the video output either individually or in a group.

To edit a video output, follow these steps:

1. Open the List of Video Outputs as described in “List video outputs” on page 125.
2. To edit an individual video output, click the output name to open the Edit Video Output page.

Note: To edit several video outputs at the same time, for instance, to set the same output formats for all channels, select the video outputs by checking the corresponding boxes in the leftmost column. You can select all the video outputs in one click simply by checking the box in the header section.

3. Click the Edit icon, the Group Edit Video Outputs page will open.
4. Edit the parameters as needed and click OK to confirm the changes.

For information about parameters, see “Add video output” on page 126.

Note: To move the selected output channel to another host, just edit the equipment name parameter. It is possible to create a new video equipment definition from here by clicking New.

Delete video output

To delete a video output, follow these steps:

1. Open the List of Video Outputs page as described in “List video outputs” on page 125.
2. Select the video output by checking the corresponding box.
3. Click the Delete icon. The video output will be deleted from the list.

Video output actions

Video Output Actions display a pre-defined video source to a video output. A pre-defined video source can be a video Input channel, a file or a display sequence.

The actions are triggered by events. At start up, the output action triggered by the default event is displayed. If there is no such event defined for the output channel, nothing is displayed.

Events management is only available, if an event manager has been defined for the site. See “Event managers” on page 50.

List video output actions

There are five different ways to list the video output actions. See the options in the table below:

Clicking Outputs on the menu bar	Selecting Output Name from the list and clicking the Video Output Actions icon will display the List Video Output Actions page for the selected video output.
Clicking Sequence on the menu bar	Selecting Sequence Name from the list and clicking the Video Output Actions icon will display the List Video Output Actions page for the selected sequence.
Clicking Input on the menu bar	Selecting Input Name from the list and clicking the Video Output Actions icon will display the List Video Output Actions page for the selected video input.
Clicking Equipment on the menu bar (selecting Video Input)	Selecting Equipment Name from the list and clicking the Video Inputs icon will display the list of video inputs for the selected equipment. Selecting the Input Names from the list and clicking the Video Output Actions icon will display the List Video Output Actions page for the selected input.
Clicking Equipment on the menu bar (selecting Video Output)	Selecting Equipment Name from the list and clicking the Video Outputs icon will display the list of video outputs for the selected equipment. Selecting the Output Names from the list and clicking the Video Output Actions icon will display the List Video Output Actions page for the selected outputs.

Note: You can use any of the aforementioned ways to display the list of video output actions. From the lists page, you have the possibility to create a new video output actions or edit and delete existing video output actions. The association of the new video output action will depend on the option that you have chosen; if it is linked to a video input, to a video output, or to a sequence.

List video output actions from menu bar by clicking Outputs

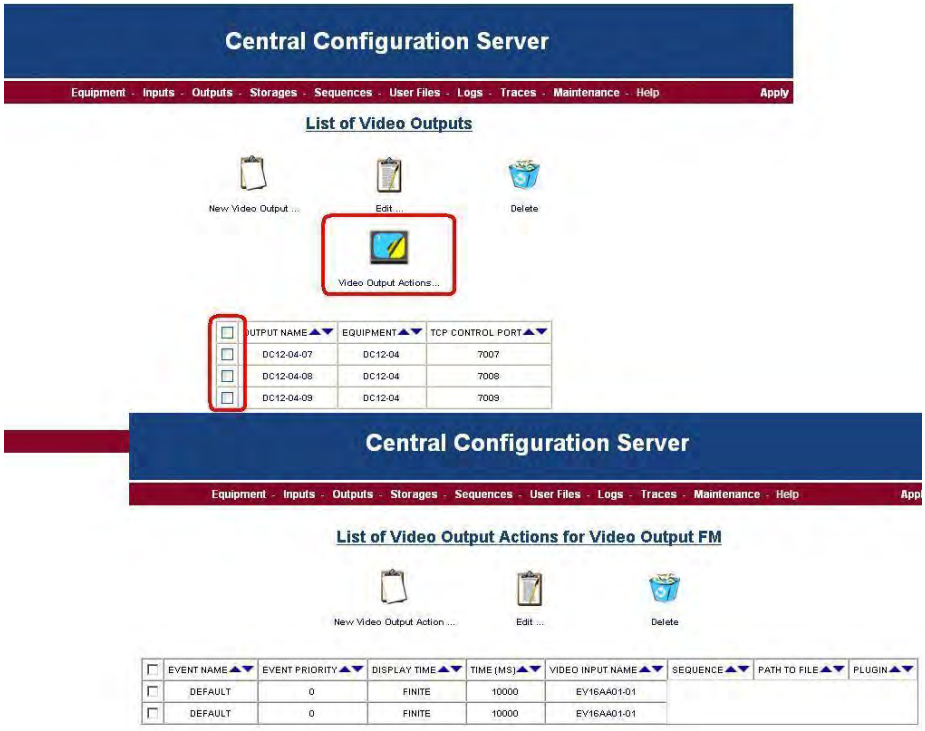
To list video output actions for selected video outputs, follow these steps:

1. Click Output on the menu bar from any page. The List of video Outputs page will open.
2. Select a video name from the list by checking the corresponding box in the leftmost column.
3. Click the Video Output Actions icon, the List of Video Output Actions for Video Output page will open.

This page lists the output actions, defined for the selected output channel.

For information about parameters, see “Add video output action” on page 135.

Figure 103: List of video output actions for video output



List video output actions from menu bar by clicking Sequences

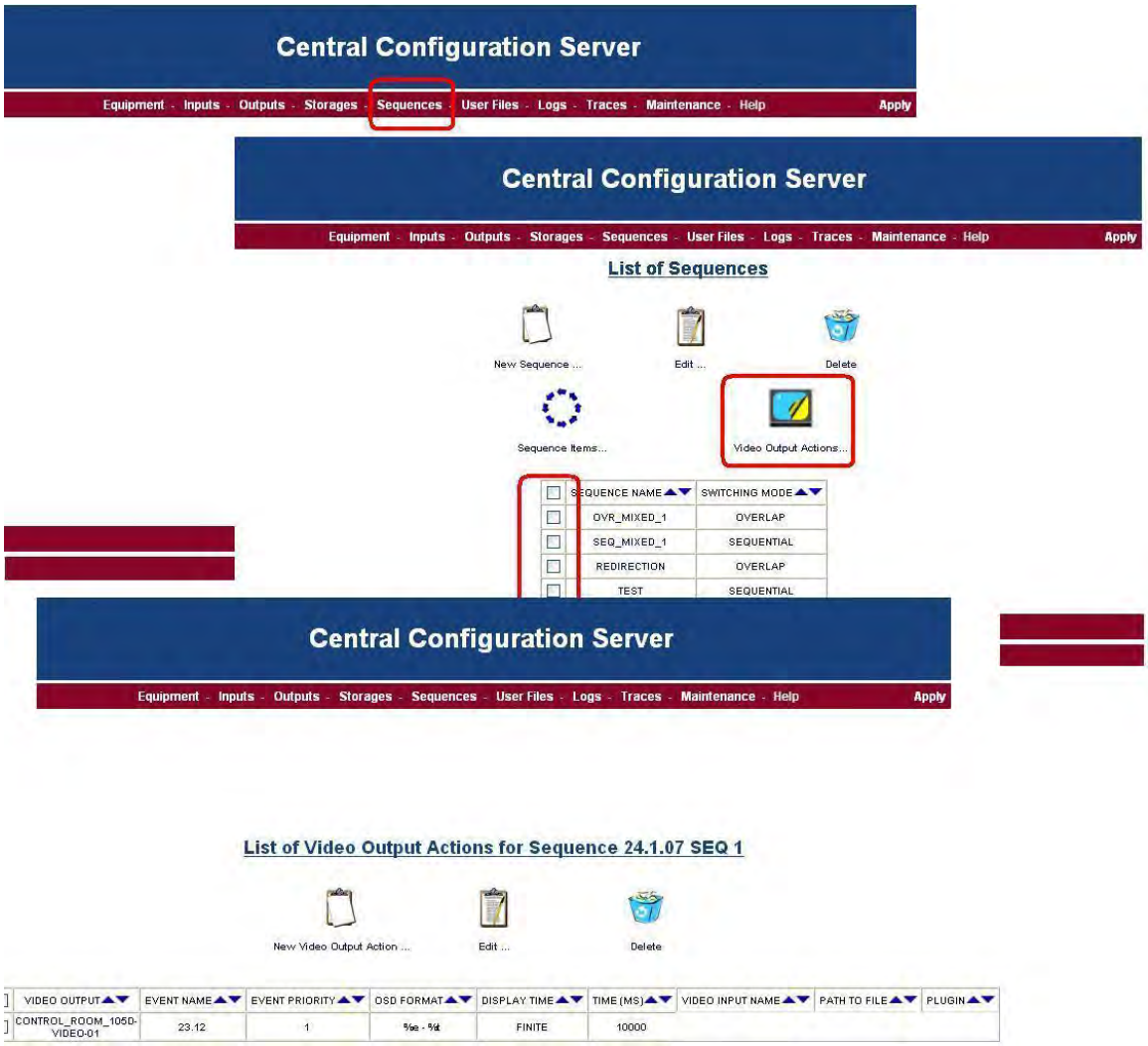
To list output actions for a selected sequence, follow these steps:

1. Click Sequences in the menu bar from any page to open the List of Sequence page.
2. Select a sequence name from the list by checking the corresponding box in the leftmost column.
3. Click the Video Output Actions icon, the List of Video Output Actions for Sequence page will open.

This page lists the output actions, associated with the selected sequence.

For information about parameters, see “Add video output action” on page 135.

Figure 104: List of video output actions for a sequence



List video output actions from menu bar by clicking Inputs

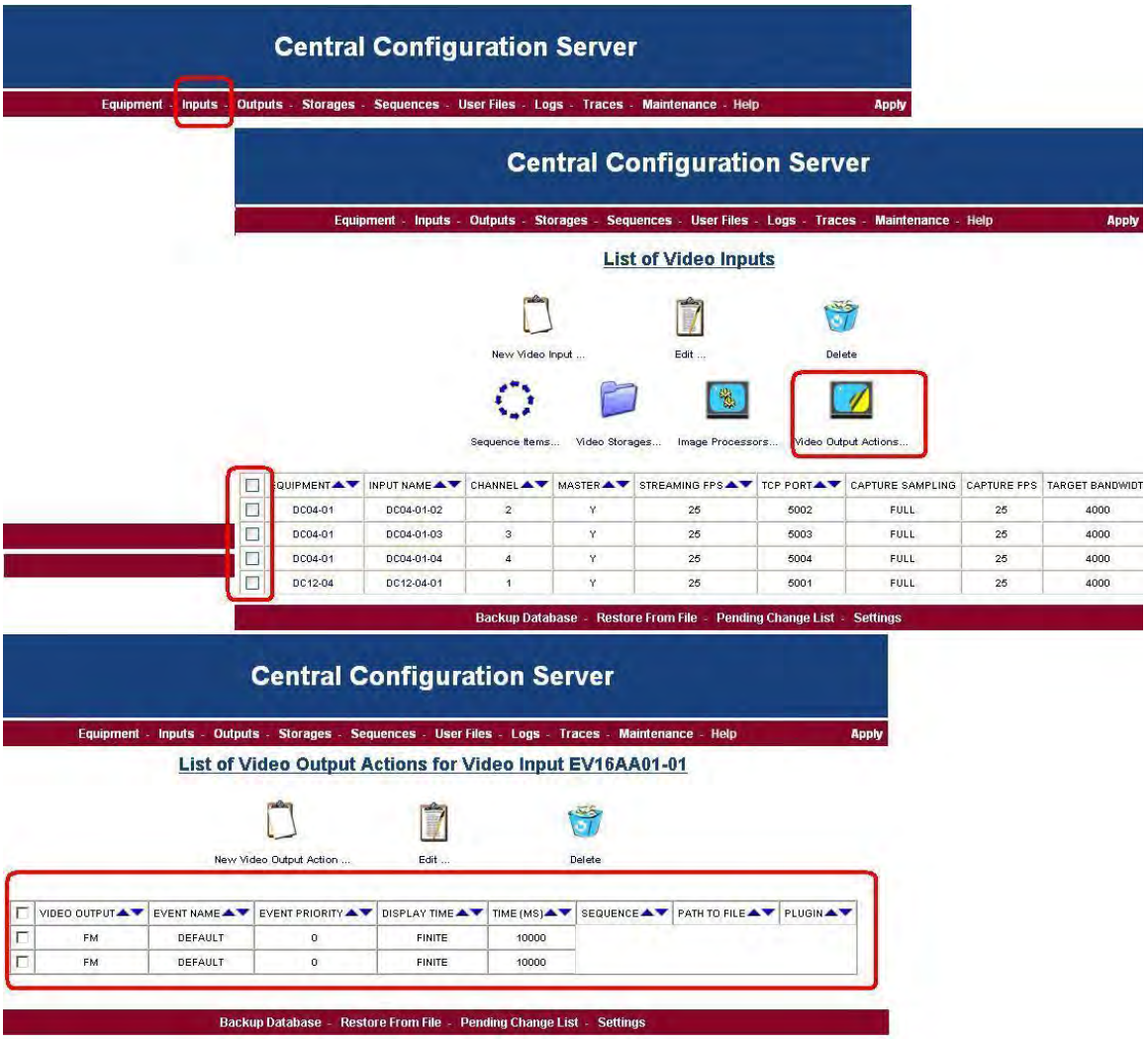
To list output actions for selected video input, follow these steps:

1. Click Input on the menu bar from any page. The List of Video Inputs page will open.
2. Select the input name from the list by checking the corresponding box in the leftmost column.
3. Click Video Output Actions, the List of Video Output Actions for Video Input page will open.

This page lists the video output actions. You can also use this page to create, edit and delete video output actions.

For information about parameters, see “Add video output action” on page 135.

Figure 105: List of video output actions for video input


Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
List of Video Inputs
New Video Input ...
Edit ...
Delete
Sequence Items...
Video Storages...
Image Processors...
Video Output Actions...
EQUIPMENT
INPUT NAME
CHANNEL
MASTER
STREAMING FPS
TCP PORT
CAPTURE SAMPLING
CAPTURE FPS
TARGET BANDWIDT
DC04-01 DC04-01-02 2 Y 25 5002 FULL 25 4000
DC04-01 DC04-01-03 3 Y 25 5003 FULL 25 4000
DC04-01 DC04-01-04 4 Y 25 5004 FULL 25 4000
DC12-04 DC12-04-01 1 Y 25 5001 FULL 25 4000
Backup Database - Restore From File - Pending Change List - Settings
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
List of Video Output Actions for Video Input EV16AA01-01
New Video Output Action ...
Edit ...
Delete
VIDEO OUTPUT
EVENT NAME
EVENT PRIORITY
DISPLAY TIME
TIME (MS)
SEQUENCE
PATH TO FILE
PLUGIN
FM DEFAULT 0 FINITE 10000
FM DEFAULT 0 FINITE 10000
Backup Database - Restore From File - Pending Change List - Settings

List video output actions from menu bar by clicking Video Input

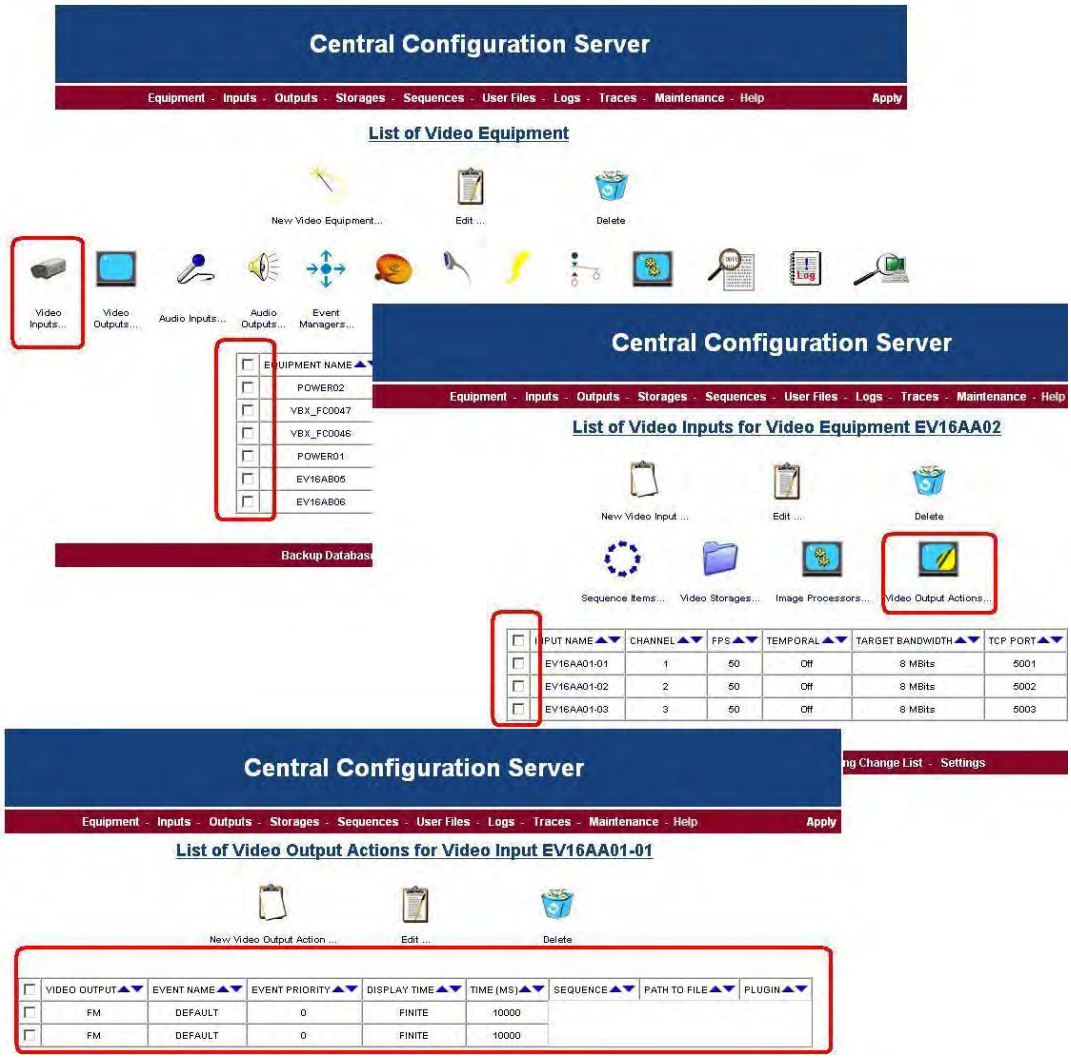
To list video output actions for selected video equipment, follow these steps:

1. Click Equipment on the menu bar from any page. The List of Video Equipment page will open.
2. Select the equipment name by checking the box in the left-most column, whose input list you want to display.
3. Click the Video Input icon, the List of video Inputs for Video Equipment page will open.
4. Select the input name from the list by checking the corresponding box in the left-most column.
5. Click Video Output Actions, the List of Video Output Actions for Video Input page will open.

This page lists the video output actions. You can also use this page to create, edit and delete video output actions.

For information about parameters, see “Add video output action” on page 135.

Figure 106: List of video inputs for selected video equipment



List video output actions from menu bar by clicking Equipment

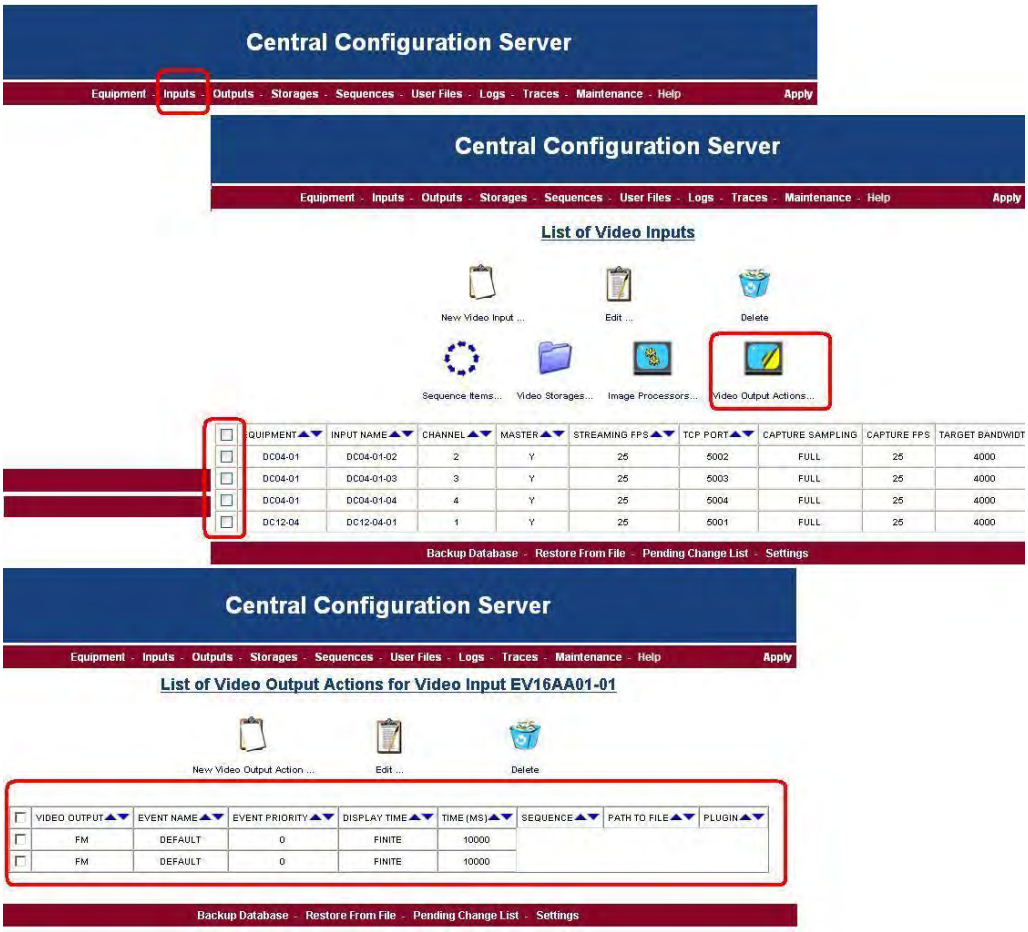
To list video output actions for selected video equipment, follow these steps:

1. Click Equipment on the menu bar from any page. The List of Video Equipment page will open.
2. Select the equipment name by checking the corresponding box in the leftmost column, whose output list you want to display.
3. Click Video Output icon, the List of video Outputs for Video Equipment page will open.
4. Select the output name from the list by checking the corresponding box in the left-most column.
5. Click Video Output Actions, the List of Video Output Actions for Video Input page will open.

This page lists the video output actions. You can also use this page to create, edit, and, delete video output actions.

For information about parameters, see “Add video output action” on page 135.

Figure 107: List of video output actions for video equipment


Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
List of Video Inputs
New Video Input ...
Edit ...
Delete
Sequence Items...
Video Storages...
Image Processors...
Video Output Actions...
EQUIPMENT
INPUT NAME
CHANNEL
MASTER
STREAMING FPS
TCP PORT
CAPTURE SAMPLING
CAPTURE FPS
TARGET BANDWIDT
DC04-01 DC04-01-02 2 Y 25 5002 FULL 25 4000
DC04-01 DC04-01-03 3 Y 25 5003 FULL 25 4000
DC04-01 DC04-01-04 4 Y 25 5004 FULL 25 4000
DC12-04 DC12-04-01 1 Y 25 5001 FULL 25 4000
Backup Database - Restore From File - Pending Change List - Settings
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
List of Video Output Actions for Video Input EV16AA01-01
New Video Output Action ...
Edit ...
Delete
VIDEO OUTPUT
EVENT NAME
EVENT PRIORITY
DISPLAY TIME
TIME (MS)
SEQUENCE
PATH TO FILE
PLUGIN
FM DEFAULT 0 FINITE 10000
FM DEFAULT 0 FINITE 10000
Backup Database - Restore From File - Pending Change List - Settings

Add video output action

To add a video output action, follow these steps:

1. Open the List of Video Output Actions as described in “List video output actions” on page 130.
2. Click the New Video Output Action icon. The New Video Output Action for Video Output page will open.
3. Edit the parameters as needed and click OK to confirm the changes.

Note: The parameters to specify may differ depending on the type of List of Video Output Actions selected (per video output, per sequence or per video input).

The new output action should now appear in the List of Video Output Actions for the specified video output channel.

You can define the following parameters on this page:

Event Name	Name of the event used by the client to trigger the action.
Event Priority	Display priority, the lower the value the higher the priority. Events with the same priority will be treated in order of occurrence. Priority 0 is reserved for the default event.

OSD Format	Makes it possible to parameterize the display when the event is signaled. %e = Event name %d = Event date %t = Event time
Display Time	
Finite	Check this radio button to enter a finite display time. Duration of the output action (in milliseconds). For the default event, this parameter is ignored.
Infinite	Check this radio button to specify that the video input should be displayed indefinitely.
Video Input Type	
Network	Check this radio button to select a video source.
Video Input Name	Video channel whose video stream is displayed during the action, specified in case the input type is a network source (video channel).
Protocol	Network protocol, specified in case the input type is a network source. Example: UDP for Ethernet, IPM for IP multicast, and SVC for ATM.
Sequence	Check this radio button to select a sequence.
Sequence	Display sequence name, specified in case the input type is a display sequence.
File	Check this radio button to select a file.
Path to File	Specify in case the input type is a file source. (Local path to the file or the video equipment).
Image Processor	Check this radio button to select a plugin.
Plugin	Define plugin from the drop down list, if it is already defined as in section “Image processors” on page 98 or create a new plugin, by clicking New.
Data Protocol	Define the network protocol to be used to transmit the Plugin Metadata.
Video Protocol	Define the network protocol to be used to transmit Video stream.
Priority Threshold	Define a priority for the plugin. This is the minimal priority (only plugins with a priority higher or equal to this threshold is displayed).

Edit video output action

To edit a video output action, follow these steps:

1. Open the List of Video Output Actions as described in “List video output actions” on page 130.
2. To edit an individual video output action, click the event name to open the Edit Video Output Action page.

Note: To edit several video outputs at the same time, for instance, to set the same display time value for all the output action, select the event names by checking the corresponding boxes in the leftmost column. You can select all the event names in one click simply by checking the box in the header section.

3. Click the Edit icon, the Group Edit Video Output Actions page will open.
4. Edit the parameters as needed and click OK to confirm the changes.

For information about parameters, see “Add video output action” on page 135.

Storages configuration

List storages

On this page, you can configure the video storage policies, that is, the recording function. There are three possible ways to define or to view storages:

- List all storages
- List storages per video input
- List storages per disk space

Note: To be able to define storages and storage actions, at least one disk space must have been configured for the site.

Storage recommendations

An excessive amount of stored files could have negative consequences in terms of CPU performances. Therefore, it is strongly advised that Storage Manager Time Granularity is raised from 2 minutes (default value) to 10 minutes and that the File Eraser is activated, especially when:

- Dealing with long term (i.e., several days or more) storages.
- Configurations liable to generate lots of inputs.

List all video storages

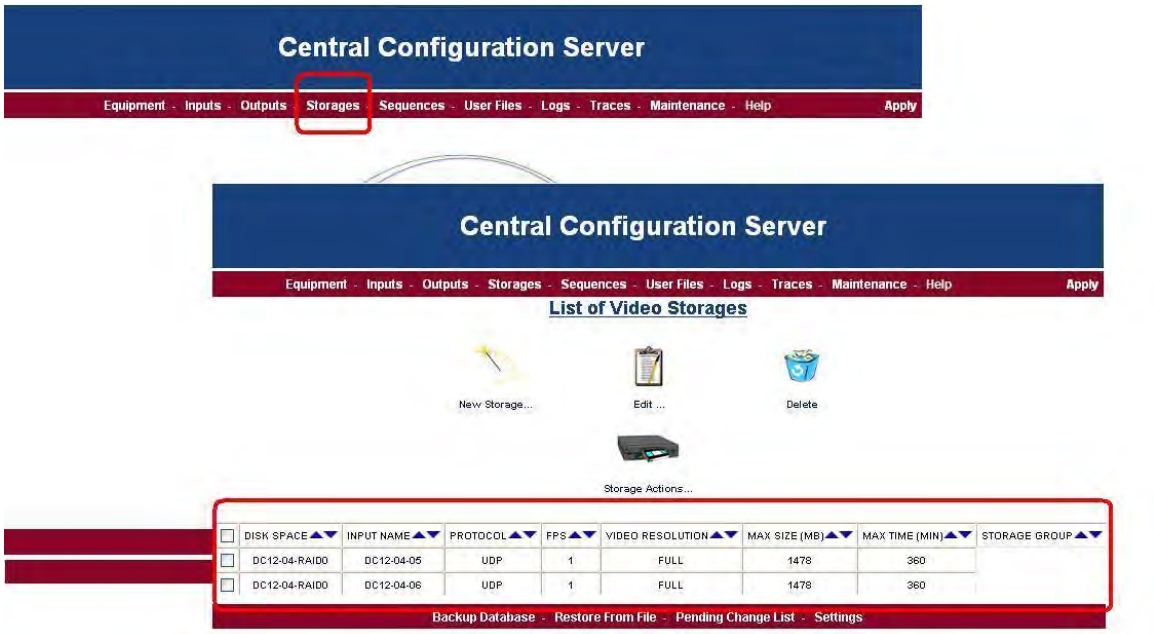
To list all video storages:

1. Click Storages on the menu bar from any page to open the List of Storages page.

On this page, all storage definitions for the site are displayed.

Disk Space	Shows the disk space to be used for this record.
Input Name	Shows the name of the video input to be recorded.
Protocol	Shows the network protocol used. For local storage select UDP. Select UDP or IPM for IP network or Ethernet. Select SVC for ATM (Due to LAN emulation UDP and IPM is also supported.
FPS	Fields per Second, rate at which the video compression engine streams the video. Values depend on the video input format.
Video Resolution	Video resolution selected: FULL, CIF, or QCIF.
Max Size	Maximum storage space in MB that this recording will use.
Max Time	Maximum amount of time images will be stored (in minutes). Older images will be deleted by the running storage.
Storage Group	Storages assigned to a storage group.

Figure 108: List of all storages



List video storages per video input

To list storages for selected video input, follow these steps:

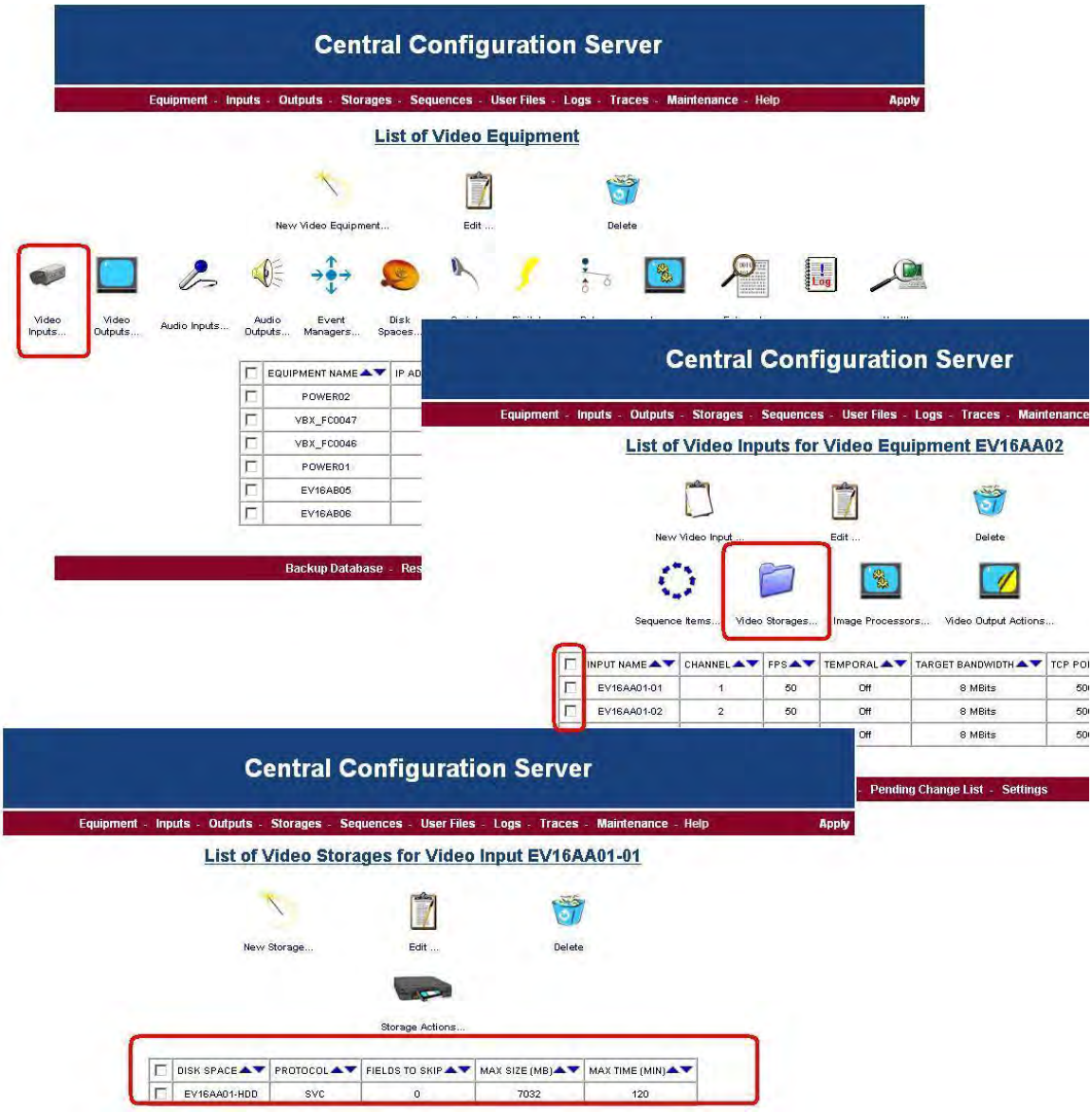
1. Open the List of Video Inputs as described in “List Video Inputs per Video Equipment” on page 156.
2. Select the input name by checking the corresponding box in the leftmost column.
3. Click Video Storages icon to open the List of Video Storages for Video Input page for the selected video input channel.

This page lists the video storages that record the selected video input channel.

For information about these parameters, see “List all video storages” on page 137.

Note: It is possible to edit the disk space settings for the disk, where a recording is stored, by clicking the corresponding disk space.

Figure 109: List of storage for an individual video input



List video storages per disk space

To list storages per disk space, follow these steps:

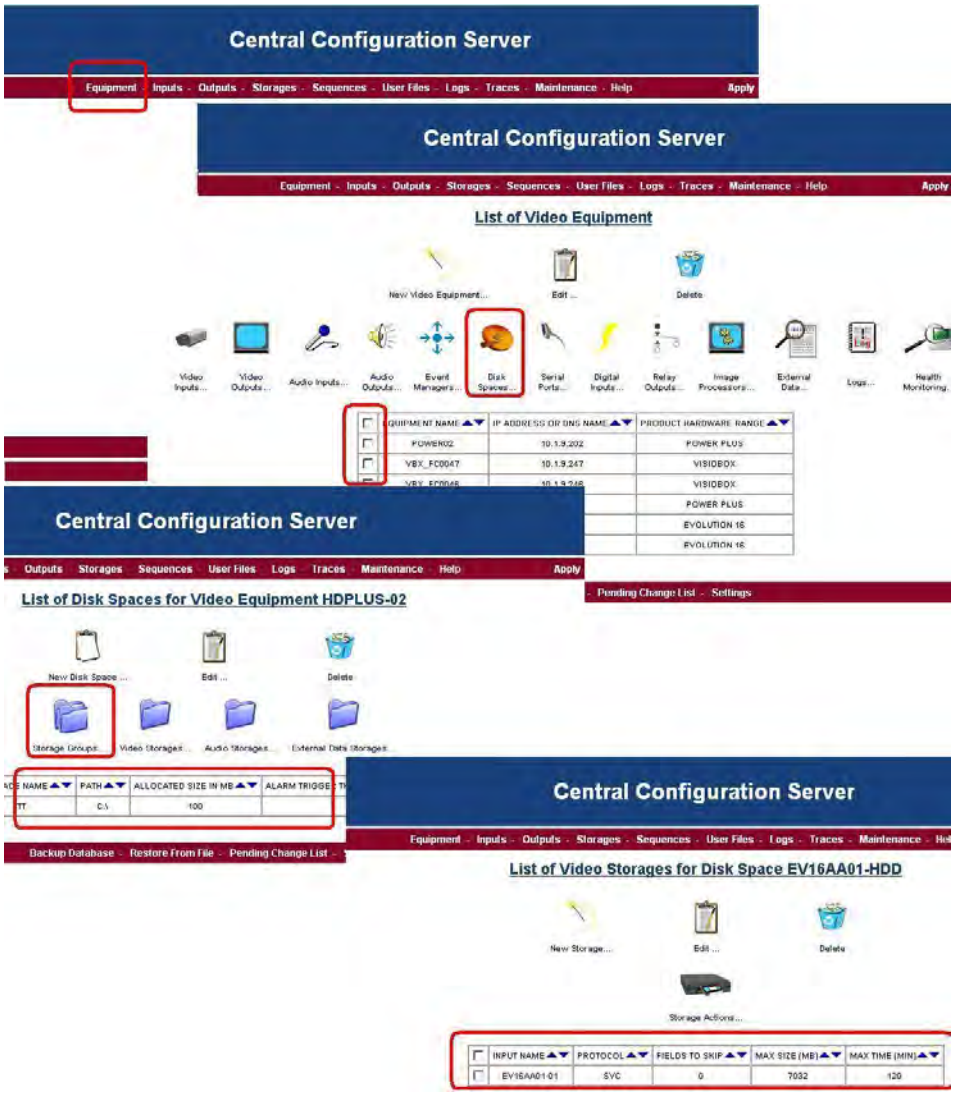
1. Open the List of Disk Spaces as described in “List Disk Spaces” on page 68.
2. Select the disk space name by checking the corresponding box in the leftmost column.
3. Click the Video Storages icon to open the List of Storages for Disk Space page.

This page lists video storages on the selected disk space.

For information about parameters, see “List all video storages” on page 137.

Note: It is possible to edit the video input settings, of a video input channel to be recorded, by clicking the corresponding input name.

Figure 110: List of storages for individual disk space



Add video storage

To be able to define a video storage space, there must be at least one disk space definition. See “List disk spaces” on page 54.

To add a video storage, follow these steps:

1. Open the List of Storages as described in “List storages” on page 137.

Note: There are three ways to access the list of storages, as described in “List storages” on page 137. Make sure that you are using the right page to create the storage. If you want to create a video storage using the “List video storages per video input” on page 138, then you must select the same name of the video input from the video source wizard, or else it will not be displayed in the List of Video Storages for Video Input. It is displayed in the list of List of Video Storages.

2. Click the New Storage icon, to open the Video Source wizard.
3. Select the video input channel to be recorded.

Note: To select several video sources, use the Ctrl or Shift key.

4. Select the network protocol.
5. Click Next to open the Storage Settings wizard.
6. Edit the parameters as needed.

Note: If the video input channel to be recorded, does not use temporal compression, three recordings at different frame rates can be defined. The user can, for instance, configure one high quality recording, that is triggered by an event and one or two continuous recordings at lower quality (with less fields per second recorded).

7. When done, click Finish to exit the New Storage Wizard.
8. Click OK to exit the New Storage Wizard.

Note: To define a weekly storage schedule and to set the Size Poll Interval parameter, the storage definition must be edited in the Edit Storage page.

The new storage definition should now appear in the List of Storages page.

You can define the following parameters on this page:

Record At	Number of fields per second that will be stored. The selectable values depend on the input video standard. **Note:** This parameter is only available if the video input channel does not use temporal compression.
For	Maximum time to record/disk space occupied by the recording. When this limit is reached (either the time limit or the disk space limit), the oldest file will be overwritten. The time and disk space limits can separately be specified later by modifying the Max Time and Max Size parameters on the Edit Storage page. See “Edit video storage” on page 142.
On	Disk space where the recorded video stream will be stored.
At	FULL, CIF, or QCIF.
Include Lower Resolutions	If enabled, the spatial sub-resolution will be encapsulated within the video stream. For example, if the highest spatial resolution is FULL, enabling lower resolution will embed CIF & QCIF.
Store AD Data	Activity detection data will also be stored.
Trigger On	Name of a storage event (of type START) on which to trigger. If the storage is not triggered by any event, nothing will be recorded.

Note: Weekly time intervals not to be recorded can be specified by means of the Weekly Schedule table on the Edit Storage page.

For…minutes	Can be used if the recording should stop before the end of the triggering storage event.
And at...	This can be used to add additional storages from the same input.

Figure 111: Wizard video source

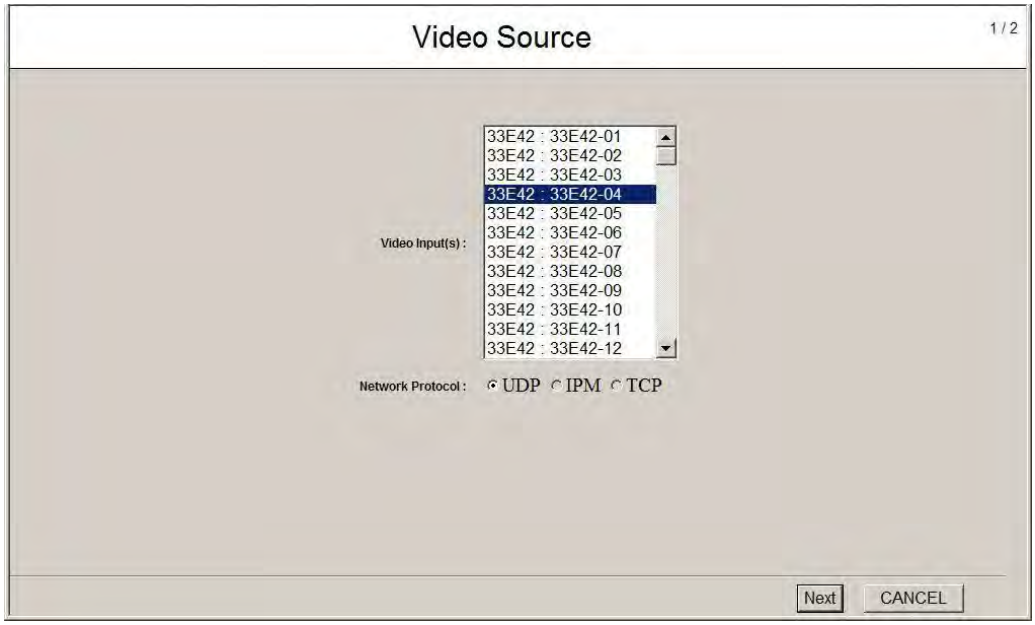
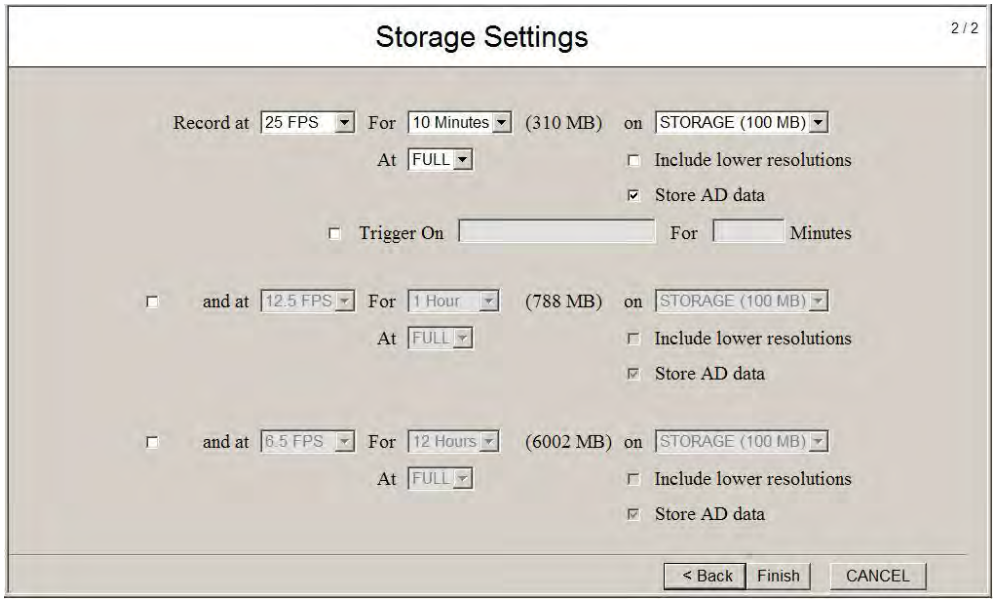


Figure 112: Wizard storage settings


Storage Settings
2 / 2
Record at 25 FPS For 10 Minutes (310 MB) on STORAGE (100 MB)
At FULL
Include lower resolutions
Store AD data
Trigger On For Minutes
and at 12.5 FPS For 1 Hour (788 MB) on STORAGE (100 MB)
At FULL
Include lower resolutions
Store AD data
and at 6.5 FPS For 12 Hours (6002 MB) on STORAGE (100 MB)
At FULL
Include lower resolutions
Store AD data
< Back
Finish
CANCEL

Edit video storage

You can edit one or more video storages policies at a time, for example, force several weekly recordings (from different sources) to stop at the same time.

To edit a video storage, follow these steps:

1. Open the List of Storages as described in “List storages” on page 137.

Note: There are three ways to access the list of storages, as described in “List storages” on page 137.

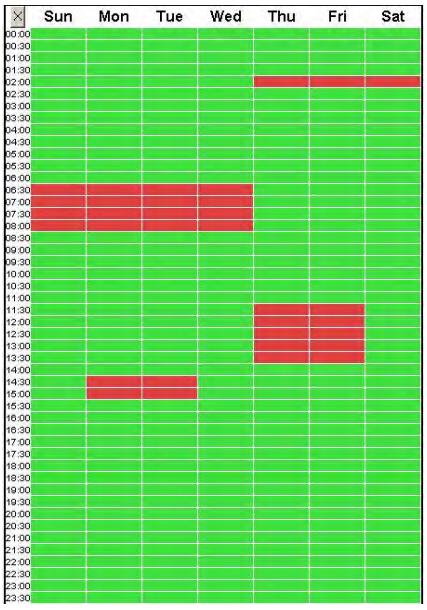
2. Click the Edit icon, to open the Edit Storage page.

3. Edit the parameters as needed and click OK to confirm changes.

You can define the following parameters on this page:

Disk Space	Shows the name of the disk space to record the selected video input.
Input Name	Equipment from which the input is coming.
Protocol	Shows the network protocol used. For local storage, select UDP. Select UDP or IPM for IP network or Ethernet.
FPS	Fields per Second, rate at which the video compression engine streams the video. Values depend on the video input format.
Video Resolution	Full, CIF, or QCIF.
Include Lower Resolutions	If enabled, the spatial sub-resolution will be encapsulated within the video stream (for example, if the highest spatial resolution is FULL, enabling lower resolution will embed CIF & QCIF).
Store AD Data	Activity detection data will also be stored.
Max Size (MB)	Shows the maximum size of the video to be recorded.
Max Time (Min)	The Max Time parameter specifies the maximum time the recording will be stored on the disk.
Weekly Schedule	Clicking the gray Weekly Storage button will expand the weekly schedule, where weekly time intervals “not to record” can be specified.
Storage Group	Assign the storage to a storage group.

Figure 113: Weekly Schedule expanded



Note: When you do not need recording, click the fields corresponding to the time intervals. The time intervals marked red will not be recorded. Recordings that are triggered by storage events will be carried out, even if the event occurred during the hours market red.

Delete video storage

To delete a video storage, follow these steps:

1. Open the List of Storages page as described in “List storages” on page 137
2. Select the video storage by checking the corresponding box.
3. Click the Delete icon. The video storage will be deleted from the list.

Video storage actions

At the start of an event, the video storage actions trigger is launched by the ActiveX controls in the client application. The event names, used by the application, must correspond with the ones defined here.

Events management is only available, if an event manager has been defined for the site. See “Event managers” on page 50.

List video storage actions

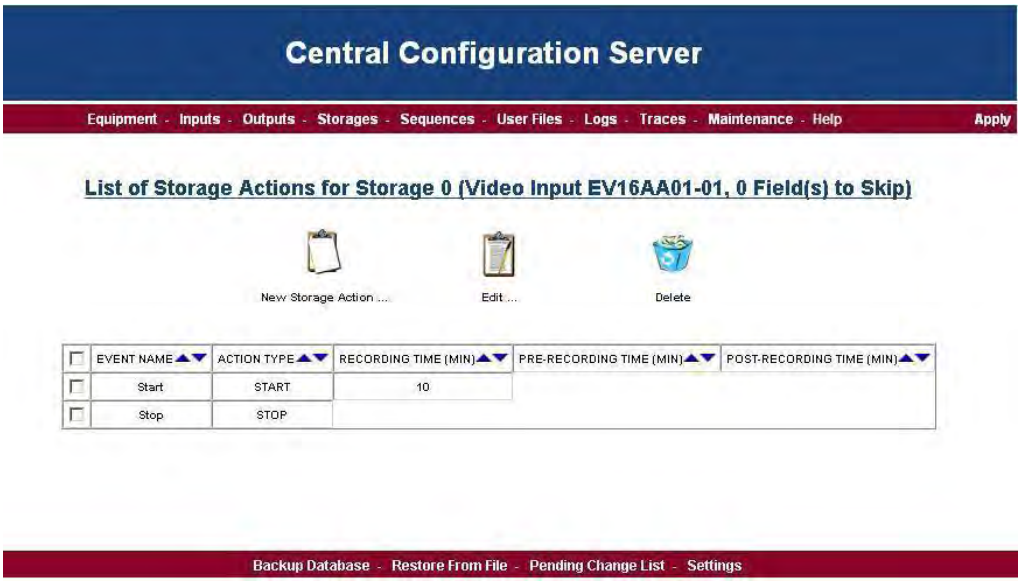
To list video storage actions, follow these steps:

1. Open the List of Storages as described in “List storages” on page 137.
2. Select a storage definition, by checking the corresponding box in the left-most column.
3. Click the Storage Actions icon to open the List of Storage Actions page for the selected storage. In the page title, the automatically assigned storage number is displayed.

This page lists the storage actions that are associated with the selected storage.

For information about parameters, see “Add audio storage event” on page 69.

Figure 114: List of storage actions for selected storage


Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
List of Storage Actions for Storage 0 (Video Input EV16AA01-01, 0 Field(s) to Skip)
New Storage Action ...
Edit ...
Delete
EVENT NAME
ACTION TYPE
RECORDING TIME (MIN)
PRE-RECORDING TIME (MIN)
POST-RECORDING TIME (MIN)
Start
START
10
Stop
STOP
Backup Database - Restore From File - Pending Change List - Settings

Add video storage action

To add a new storage action, follow these steps:

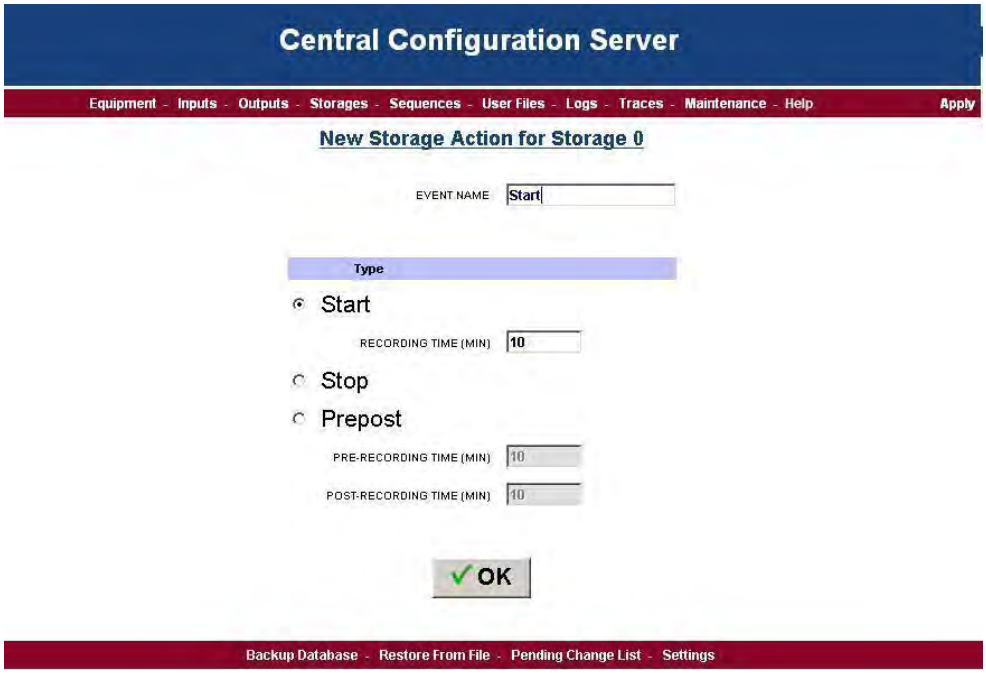
1. Open the List of Storages as described in “List audio storage events” on page 69.
2. Click the New Storage Action icon to open the New Storage Action for page. The name of the selected storage will be indicated in the title.
3. Edit the parameters as needed and click OK to confirm the changes.

The new storage event should now appear in the List of Storage Actions for the selected storage.

You can define the following parameters on this page:

Event Name	Event name that triggers this recording action.
Type	Type of action Start, Stop or Prepost.
Start	Select this radio button to define the recording time. **Recording time:** The recording time duration in minutes after the event has started.
Stop	Select this radio button to stop the recording once the defined event (stop event) is triggered.
Prepost	Select this radio button to define the pre-recording time and the post recording time in minutes. **Pre-recording and Post-recording time:** Part of the storage will be marked as alarm storage (red part of the video on the timeline) according to the configured pre and post recording time values and can be viewed later, by the operator, as video associated with a particular event. Pre-recording time is configured time before an event and post-recording time is configured time after an event. **Note:** It is not possible to cut the audio or the video files according to the time defined. For this reason, the complete slice of the audio and the video files falling in the defined time region is recorded. So usually, you will find that it has taken more than the defined time period to record the audio or the video files.

Figure 115: New storage action for storage



Edit video storage action

To edit a video storage action, follow these steps:

1. Open the List of Storages as described in “List audio storage events” on page 69.
2. Select a storage action by checking the corresponding box in the leftmost column.
3. Click the Edit icon, the Edit Storage Action page will open.

Note: It is also possible to select and edit several storage actions at the same time, for instance, to set the same minimum recording time for a group of storage actions.

4. Edit the parameters as needed and click OK to confirm the changes.

For information about parameters, see “Add audio storage event” on page 69.

Sequences configuration

List video sequences

A video output action can have a sequence as display source. A display sequence is composed of sequence items. Each sequence item is associated with a video channel, whose video stream is displayed within the duration of the sequence item.

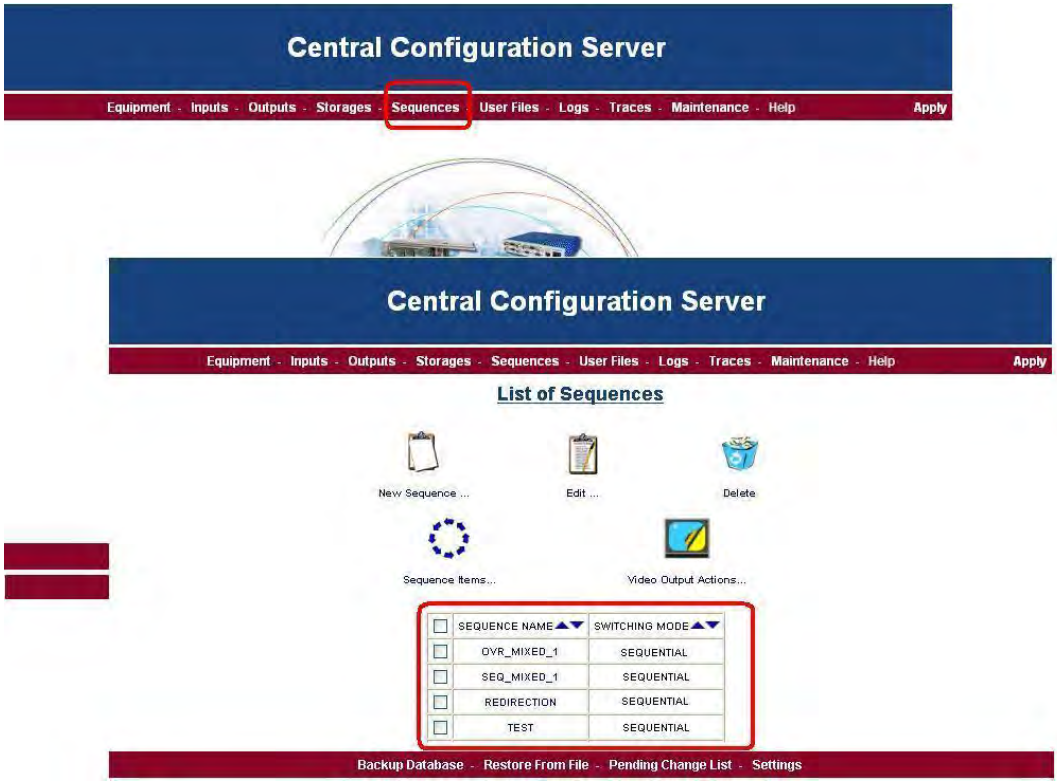
To list video sequences:

1. Click Sequences in the menu bar from any page to open the List of Sequence page.

All display sequence definitions on the site are displayed on this page.

For information about parameters, see “Add video sequence” below.

Figure 116: List of sequences


Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help Apply
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help Apply
List of Sequences
New Sequence ...
Edit ...
Delete
Sequence Items...
Video Output Actions...
SEQUENCE NAME
SWITCHING MODE
OVR_MIXED_1
SEQUENTIAL
SEQ_MIXED_1
SEQUENTIAL
REDIRECTION
SEQUENTIAL
TEST
SEQUENTIAL
Backup Database - Restore From File - Pending Change List - Settings

Add video sequence

To add a new sequence, follow these steps:

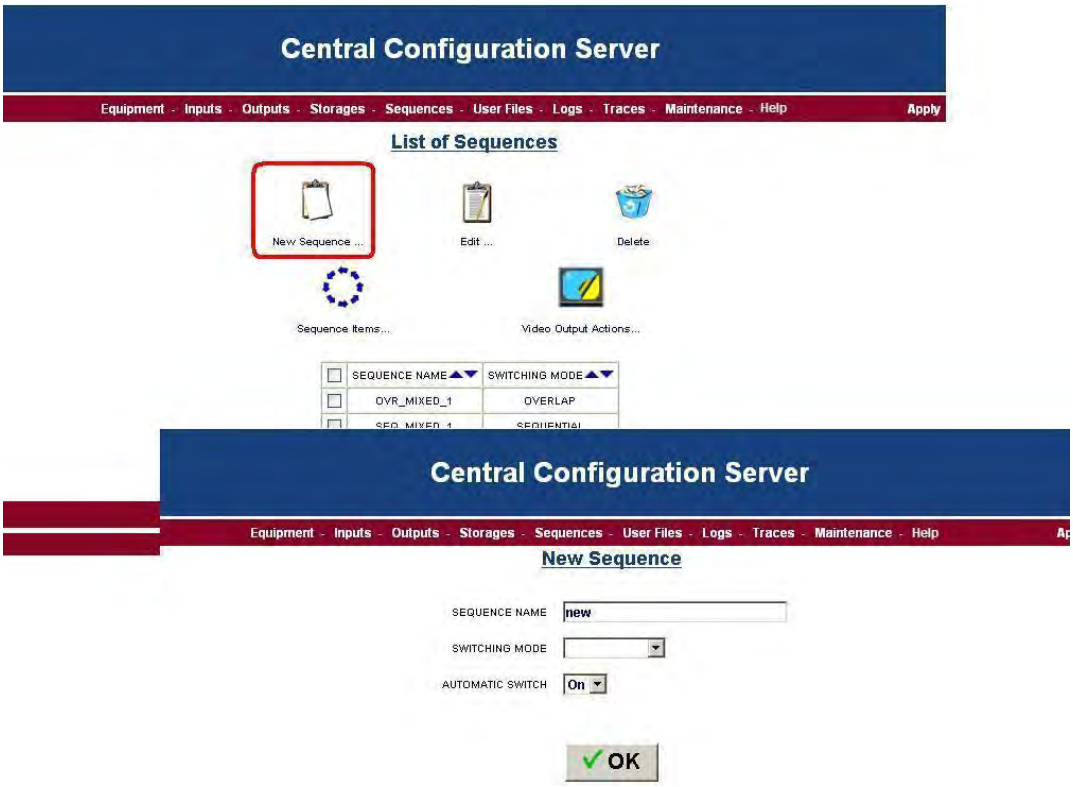
1. Click Sequences on the menu bar from any page to open the List of Sequence page.
2. Click the New Sequence icon to open the New Sequence page.
3. Edit the parameter as needed and click OK to confirm the changes.

The new display sequence should now appear in the List of Sequences page.

You can define the following parameters on this page:

Sequence Name	Unique short name for referencing the display sequence.
Switching Mode	Sequential - screen becomes black during switching time.
Automatic Switch	Enables/Disables cycles, to be used with the SwitchToSource style calls in the UltraView SDK, to manually select cycle items to redirect.

Figure 117: Create new sequence



Edit video sequence

To edit a video sequence, follow these steps:

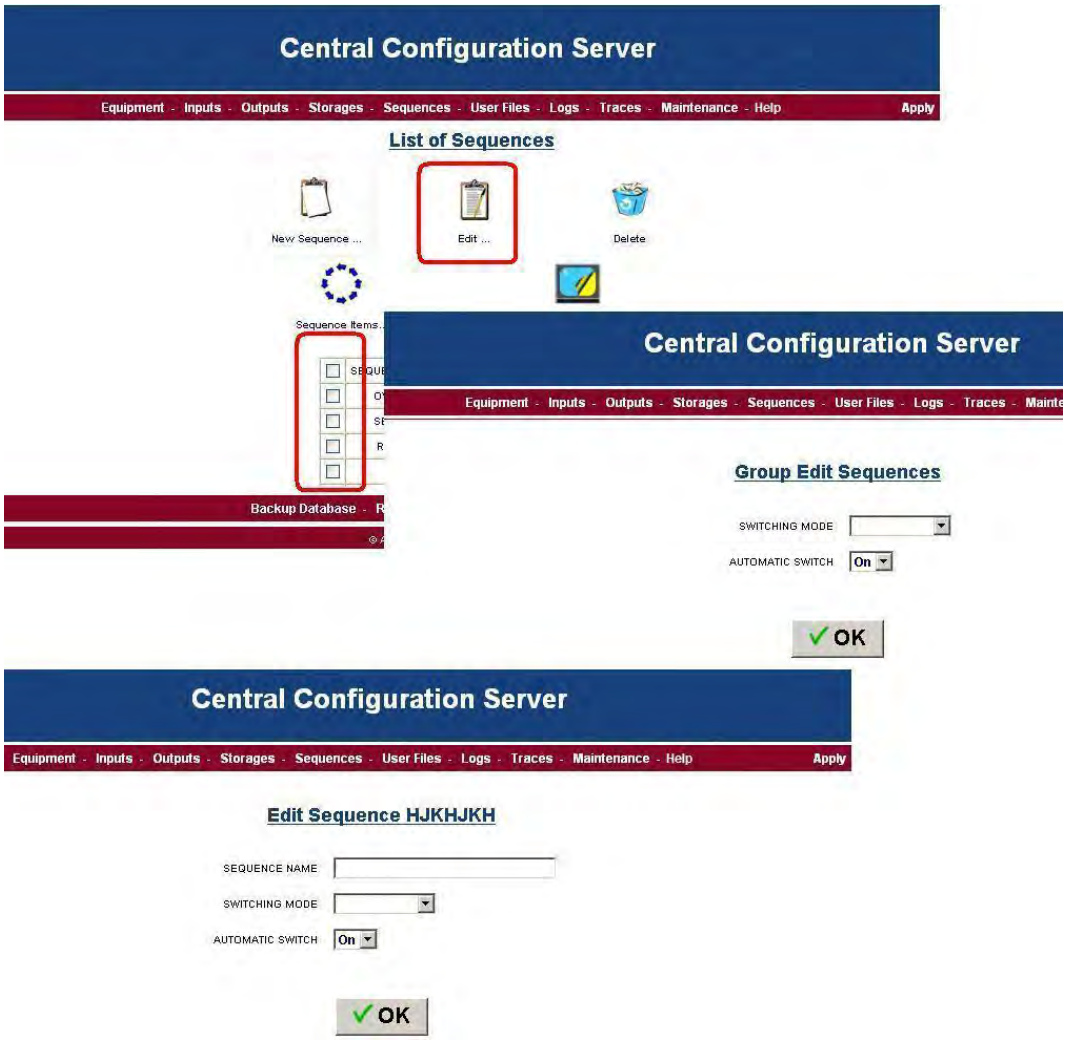
1. Click Sequences in the menu bar from any page to open the List of Sequence page.
2. Click the Sequence Name from the list. The Edit Sequence page will open.

Note: You can also edit several sequences in one step, for example, to apply the same switching mode for all the sequences. Select the sequences by checking the corresponding boxes in the left-most column, or select the box in the header section to select all the sequences in one step.

3. Click the Edit icon to open the Edit Sequence or Group Edit Sequences page.
4. Edit parameters as needed and click OK to confirm the changes.

For information about parameters, see “Add video sequence” on page 147.

Figure 118: Edit and group edit sequences


Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
List of Sequences
New Sequence ...
Edit ...
Delete
Sequence Items...
Backup Database
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maint
Group Edit Sequences
SWITCHING MODE
AUTOMATIC SWITCH
On
OK
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
Edit Sequence HJKHJKH
SEQUENCE NAME
SWITCHING MODE
AUTOMATIC SWITCH
On
OK

Delete video sequence

To delete a video sequence, follow these steps:

1. Open the List of Sequence page as described in “List video sequences” on page 147
2. Select the sequence by checking the corresponding box.
3. Click the Delete icon. The sequence will be deleted from the list.

Sequence Items

List Sequence Items

What is displayed during a display sequence depends on the sequence items it contains. A sequence item is associated with a video input channel. The list can be displayed in two ways:

- List of Sequence Items for Sequence
- List of Sequence items for Video Input

List sequence items for a video sequence

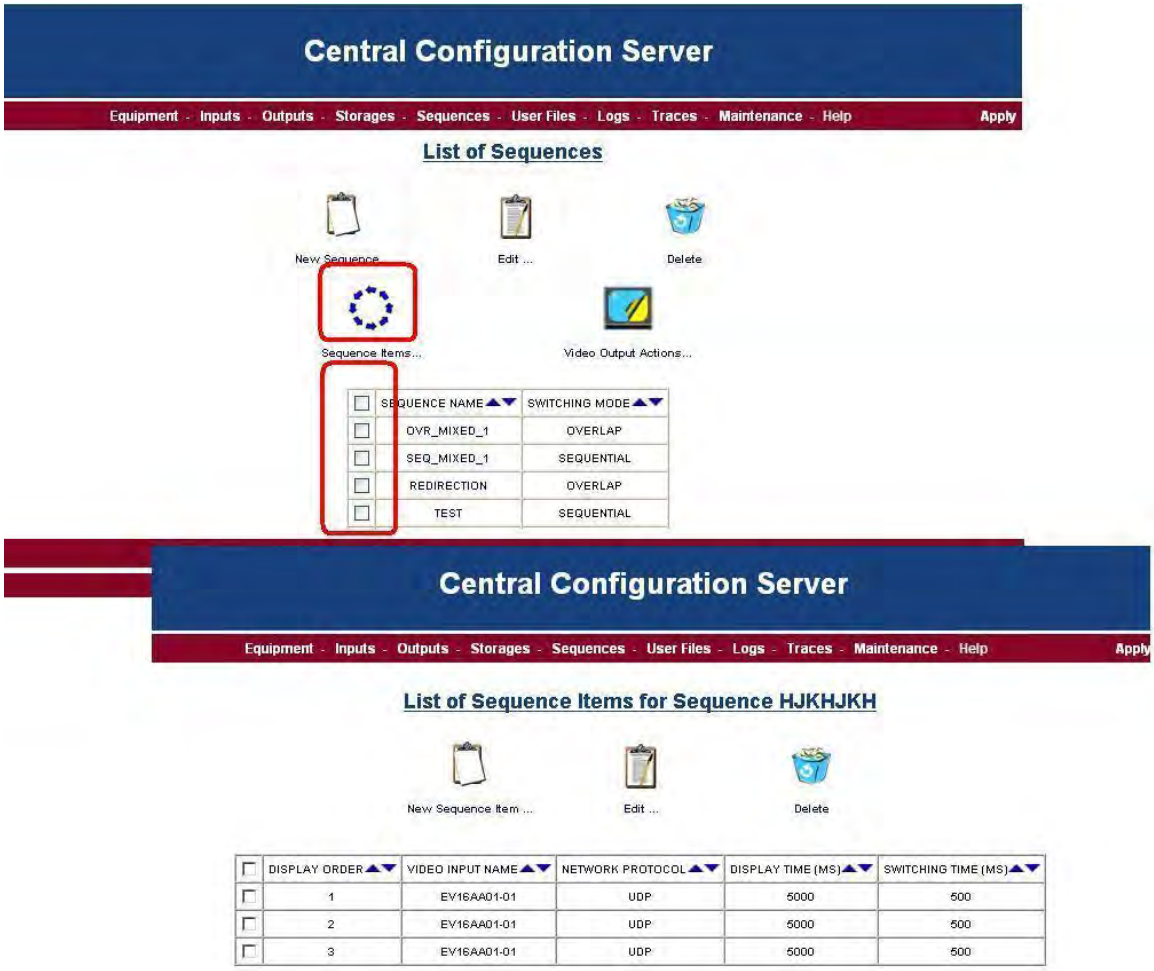
To list sequence items, follow these steps:

1. Click Sequences on the menu bar from any page to open the List of Sequence page.
2. Select a sequence by checking the corresponding box in the left-most column.
3. Click the Sequence Items icon to open the List of Sequence Items for page.

This page lists the sequence items for the selected sequence.

For information about parameters, see “Add video sequence item” on page 151.

Figure 119: List of sequence items for sequence



List video sequence items for a video input

To list sequence items for a video input, follow these steps:

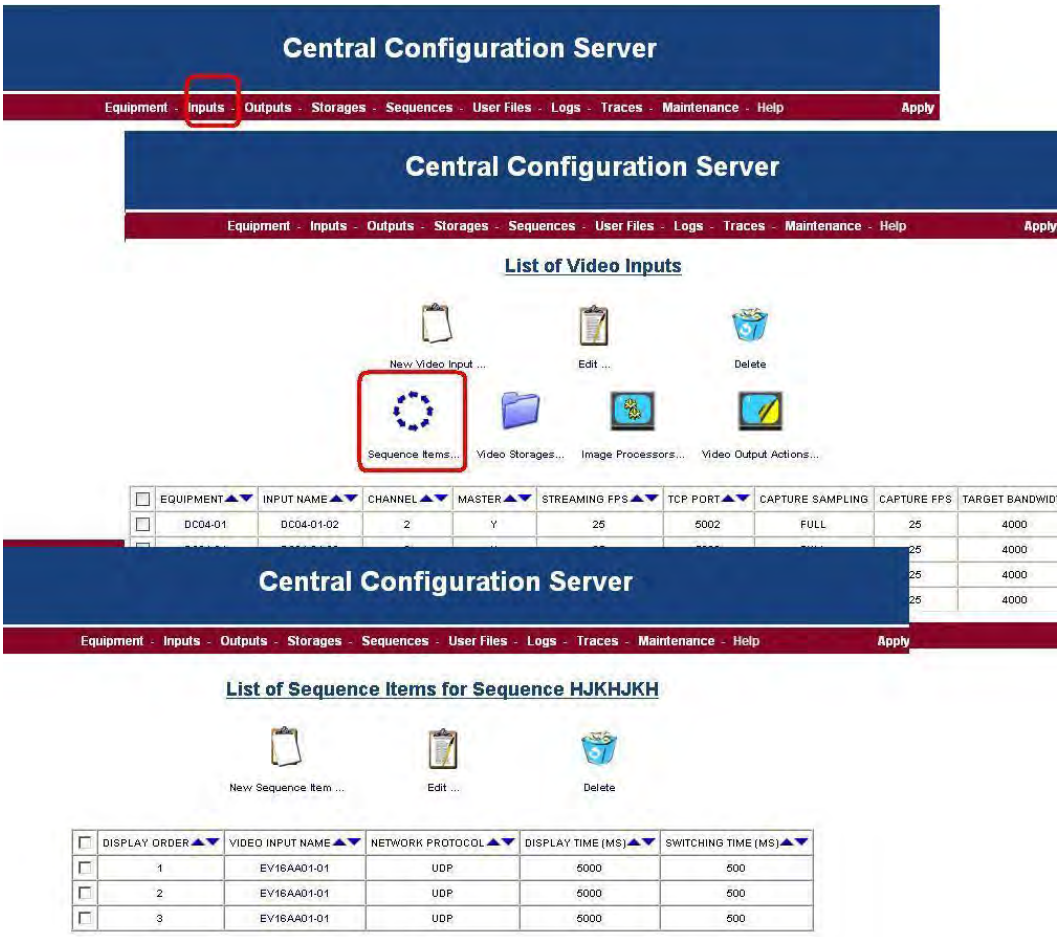
1. Open the List of Video Inputs, as described in the List All Video Inputs on page 155.
2. Select a video input channel by checking the corresponding box in the left-most column.

3. Click the Sequence Items icon to open the List of Sequence Items for Video Input page.

This page lists the sequence items for the selected video input channel.

For information about parameters, see “Add video sequence item” below.

Figure 120: List of sequences for video input



Add video sequence item

To add a video sequence item, follow these steps:

1. Open the List of Sequence Items, as described in “Add video sequence item” above.
2. Click the New Sequence Items icon. The page that will open will depend upon the selection. If you have used the video input mode, then the page will be New Sequence Item for Video Input, and if you have used the sequence mode, then the page will be New Sequence Item for Sequence.
3. Edit the parameters as needed and click OK to confirm the changes.

You can define the following parameters on this page:

Sequence Name	(On the New Sequence Item for Video Input page) The display sequence to which the sequence item belongs.

Video Input Name	(On the New Sequence Item for Sequence page) The video channel that is displayed throughout the duration of the sequence item.
Display Order	Display order within the sequence. The sequence items should be ordered starting from 1.
Network Protocol	Network protocol to be used.
Display Time (ms.)	Duration of the sequence item.

The sequence item should now appear in the List of Sequence Items for the video input channel, or in the List of Sequence Items for Sequence, depending on the selection made while displaying the List of the Sequence Items.

Figure 121: Creating new sequence item either for sequence or video input

Edit video sequence item

To edit a video sequence item, follow these steps:

1. Open a List of Sequence Items as described in “List Sequence Items” on page 149.
2. Select a sequence item from the list by checking the corresponding box in the left-most column. It is also possible to select and edit several sequence item definitions at the same time, for instance, to set the same display time for several items.
3. Click the Edit icon to open the Edit Sequence Item page.

4. Edit the parameters as needed and click OK to confirm the changes.

For information about parameters, see “Add video sequence item” on page 151.

Video output actions

See “To delete an image processor, follow these steps:

1. Open the List of Image Processors page as described in “List image processors” on page 98.
2. Select the image processor by checking the corresponding box.
3. Click the Delete icon. The image processor will be deleted from the list.

Video output actions” section on page 103.

User files configuration

Folder page

You may customize your system by providing different types of user files. By default, the following folders are displayed:

- External Data Plugins folder: holds three sub-folders, namely Configuration Files, Linux, and Windows that will be explained later in this section.
- Fonts folder: allows you to upload the custom true type font files that can be used with the Monitor Manager"s OSD functionality.
- PTZ Camera Protocols folder: holds mobile camera protocols using the MCL language files.
- System Upgrades: allows you to upload the software upgrade packages ".rus files".
- Video Processing Plugins folder: holds three sub-folders, namely Configuration Files, Linux, and Windows that will be explained later in this section.
- Visual Alert Files: presently not in use.

Click User Files on the menu bar to open the Folder page.

This page allows you to navigate through the different folders.

Figure 122: The folders page

Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
Folder: /
Back
Upload New File
Delete
External Data Plugins
Fonts
PTZ Camera Protocols
System Upgrades
Video Processing Plugins
Visual Alert Files
Backup Database - Restore From File - Pending Change List - Settings

External data plugins folder

This page holds three sub-folders:

- The Configuration Files folder
- The Linux folder
- The Windows folder

Configuration Files folder

This folder holds all the windows/linux registry configuration files. The extension of each file is .reg.

Note: It is better to define the configuration file before using the function plugins in the List of Video Equipment page.

Uploading and deleting external data configuration files

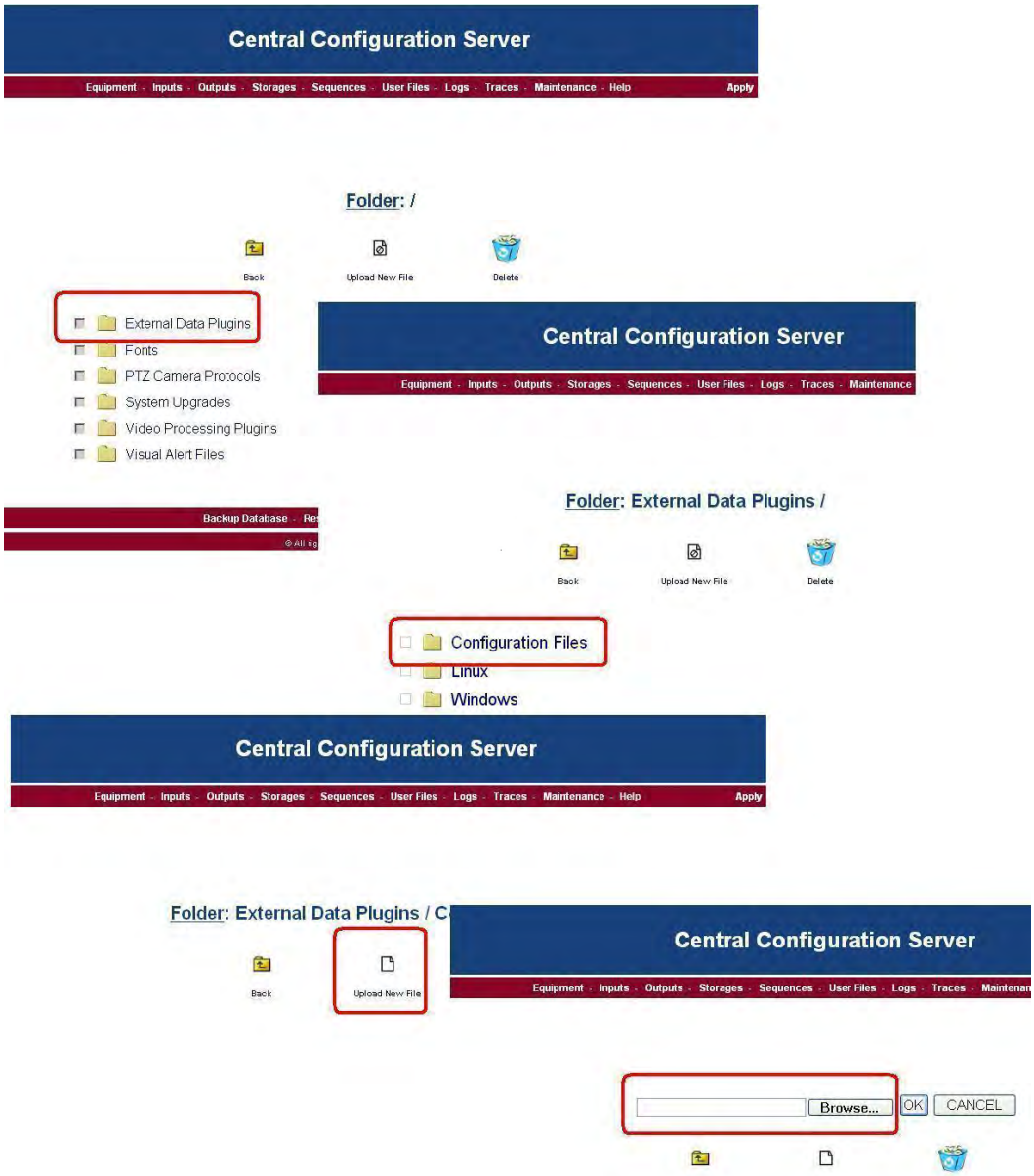
To upload and delete external data configuration files, follow these steps:

1. Click the External Data Plugins folder.
2. Click the Configuration Files folder.
3. Click the Upload New File icon. The page will display the options Browse, OK, and Cancel. Click Browse and browse through, using the navigation window to select the desired configuration file. The selected file is displayed in the page.

Note: The extension of the configuration file is .reg.

4. To delete any of the displayed configuration file, select the corresponding box and click the Delete icon. The file will be deleted from the page.

Figure 123: The external data configuration files


Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
Folder: /
Back
Upload New File
Delete
External Data Plugins
Fonts
PTZ Camera Protocols
System Upgrades
Video Processing Plugins
Visual Alert Files
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance
Backup Database
Folder: External Data Plugins /
Configuration Files
Linux
Windows
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
Folder: External Data Plugins / C
Central Configuration Server
Browse...
OK
CANCEL

Linux folder

This folder holds all the Linux plugins, which are used for processing the images. The extension of each file is “.so”. The configuration information of these files is stored in the Configuration Files folder.

Windows folder

This folder holds all the windows plugins, which are used for processing the images. The extension of each file is “.dll”. The configuration information of these files is stored in the Configuration Files folder.

Note: It is better to define the plugins before using the function Plugins in the List of Video Equipment page.

Uploading and deleting external data video processing plugins

To upload or delete external data video processing plugins, follow these steps:

1. Click the External Data Plugins folder.
2. Click the Windows folder.
3. Click the Upload New File icon. The page will display the options Browse, OK, and Cancel. Click Browse and browse through, using the navigation window to select the desired video processing plugins. The selected file is displayed in the page.

Note: The extension of the video processing plugin is ".dll".

4. To delete any of the displayed video processing plugin, select the corresponding box and click the Delete icon. The file will be deleted from the page.

Figure 124: The external data plugins list

Fonts folder

Adding or deleting new font files

To add or delete new font files, follow these steps:

1. Click the Fonts icon to add a new font file. The Fonts page will open.
2. Click the Upload New File icon. Click the button Browse, a navigation window is displayed, browse through to the intended font file and select it by clicking Open. The path of the font file is displayed, click OK, and the intended font file is displayed in the page.
3. To delete any font file, check the corresponding box and click Delete icon. It will disappear from the page.

Figure 125: Adding or deleting new fonts file

Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
Folder: /
Back
Upload New File
Delete
External Data Plugins
Fonts
PTZ Camera Protocols
System Upgrades
Video Processing Plugins
Visual Alert Files
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
Backup Database
Folder: Fonts /
Back
Upload New File
Delete
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
List - Settings
Browse...
OK
CANCEL
Back
Upload New File
Delete
Backup Database - Restore From File - Pending Change List - Settings

PTZ camera folder

This folder holds all the PTZ camera protocols. On this page, you can navigate, upload, create a new folder or a protocol and delete the folder or any of the displayed protocols.

Uploading or deleting PTZ camera protocols

To upload or delete PTZ camera protocols, follow these steps:

1. Click the PTZ Camera Protocols folder.
2. Click the Upload New File icon. The page will display the options Browse, OK, and Cancel. Click Browse and browse through, using the navigation window to select the desired PTZ camera protocols. The selected protocol is displayed in the page.
3. To delete any of the displayed PTZ camera protocols, select the corresponding box and click the Delete icon. The file will be deleted from the page.

Figure 126: List of PTZ camera protocols

Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
Folder: /
Back
Upload New File
Delete
External Data Plugins
Fonts
PTZ Camera Protocols
System Upgrades
Video Processing Plugins
Visual Alert Files
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Backup Database
Folder: PTZ Camera Protocols /
Back
Upload New File
Delete
Diamond Rev. 1 05/18/2009
GE CYBERDOME Rev. 2 10/13/2009
GE IMPACNET Rev. 1 05/18/2009
GE LEGEND ASCII Rev. 1 05/18/2009
GE LEGEND IP Rev. 1 05/18/2009
INGISYS Rev. 1 05/18/2009
Kalatel Rev. 2 05/18/2009
Panasonic Rev. 2 05/18/2009
Philips_Autodome Rev. 2 05/18/2009
Samsung Rev. 1 05/18/2009
Sensormatic_Ultra Rev. 1 05/18/2009
Sentry Rev. 1 05/18/2009

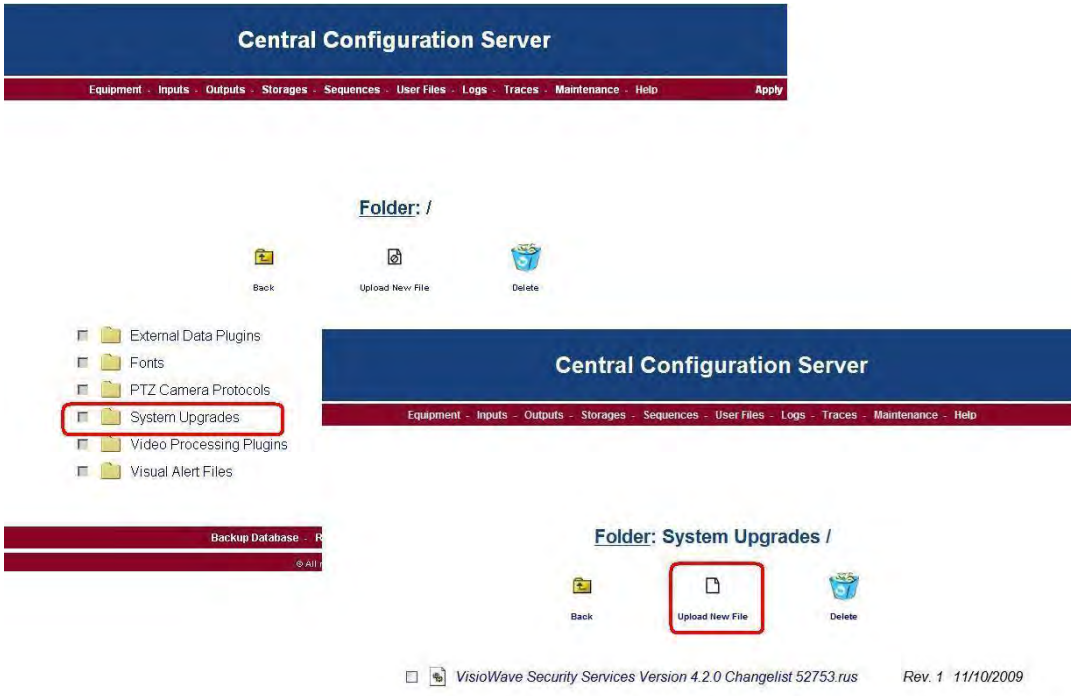
System upgrades folder

This folder is used for uploading Software Upgrade Packages (.rus files).

To upload or delete the software upgrade packages, follow these steps:

1. Click the Upload New File icon. The page will display the options Browse, OK, and Cancel. Click Browse and browse through, using the navigation window to select the desired Software Upgrade Package (.rus files). The selected upgrade package is displayed on the page.
2. To delete any of the displayed software upgrade package, select the corresponding box and click the Delete icon. It will be deleted from the page.

Figure 127: The page for uploading the software upgrades


Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
Folder: /
Back
Upload New File
Delete
External Data Plugins
Fonts
PTZ Camera Protocols
System Upgrades
Video Processing Plugins
Visual Alert Files
Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Backup Database
Folder: System Upgrades /
Back
Upload New File
Delete
VisioWave Security Services Version 4.2.0 Changelist 52753.rus
Rev. 1 11/10/2009

Video processing folder

This page holds three sub-folders:

- The Configuration Files folder
- The Linux folder
- The Windows folder.

Configuration Files folder

This folder holds all the windows/Linux registry configuration files. The extension of each file is “.reg”.

Note: It is better to define the configuration file before using the function Plugins in the List of Video Equipment page.

Uploading and deleting configuration files

To upload or delete configuration files, follow these steps:

1. Click the Video Processing Plugins folder.
2. Click the Configuration Files folder.
3. Click the icon Upload New File. The page will display the options Browse, OK, and Cancel. Click Browse and browse through, using the navigation window to select the desired configuration file. The selected file is displayed on the page.

Note: The extension of the Configuration file is “reg”.

4. To delete any of the displayed Configuration file, select the corresponding box and click the Delete icon. The file will be deleted from the page.

Figure 128: Video processing configuration files

Linux folder

This folder holds all the Linux plugins, which are used for processing the images. The extension of each file is “.so”. The configuration information of these files is in the Configuration file folder.

Windows folder

This folder holds all the windows plugins, which are used for processing the images. The extension of each file is “.dll”. The configuration information for these files is in the Configuration file folder.

Note: It is better to define the plugins before using the function Plugins in the List of Video Equipment page.

Uploading or deleting video processing plugins

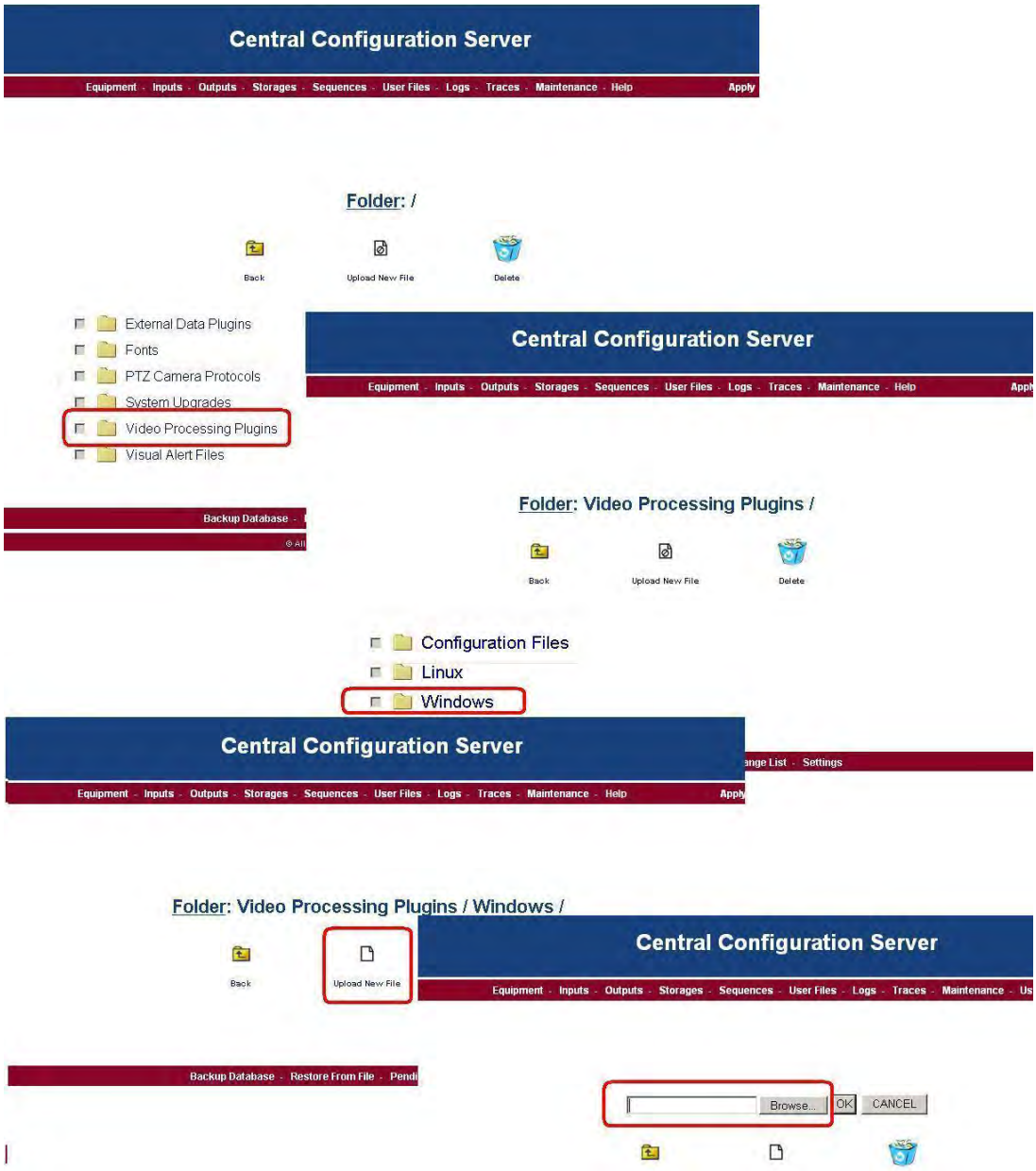
To upload or delete video processing plugins, follow these steps:

1. Click the Video Processing Plugins folder.
2. Click the Windows folder.
3. Click the Upload New File icon. The page will display the options Browse, OK, and Cancel. Click Browse and browse through, using the navigation window to select the desired video processing plugins. The selected file is displayed on the page.

Note: The extension of the video processing plugin is “.dll”.

4. To delete any of the displayed video processing plugin, select the corresponding box and click the Delete icon. The file will be deleted from the page.

Figure 129: Video processing plugins list



Visual alert files folder

Note: At present this folder is not used.

Delete user files

To delete a user file, follow these steps:

1. Open the user files folder as described in “Folder page” on page 154.
2. Select the folder by checking the corresponding box.
3. Click the Delete icon. The user files will be deleted from the list.

Logs

List logs

On this page you can create and edit logs. It is also possible to configure parameters for debugging.

Clicking Log on the menu bar opens the List of Logs page.

Figure 130: List of logs - general view

Add log

To add a log, follow these steps:

1. Click Logs on the menu bar. The List of Logs page will open.
2. Click the New Log icon. The New Log page will open.
3. Edit the parameters as needed and click OK to confirm the changes.

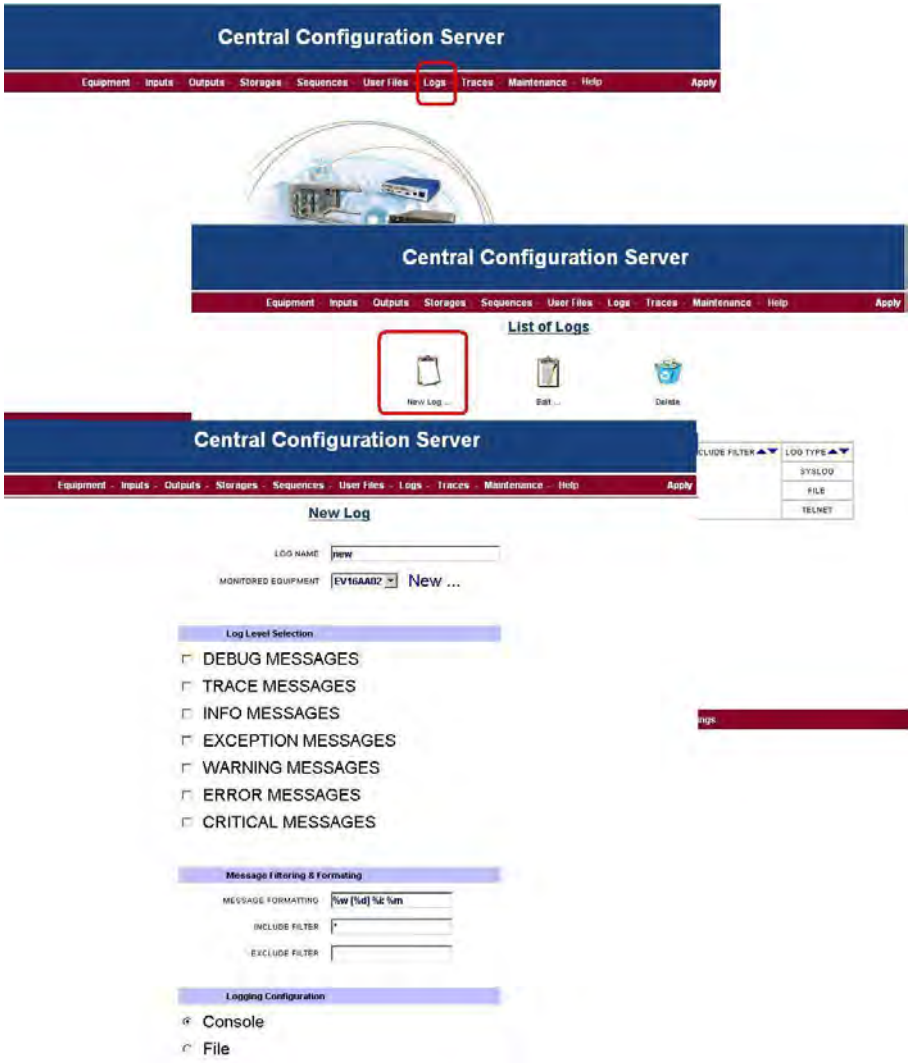
You can define the following parameters on this page:

Log name	Define the name for the new log.
Monitored Equipment	Select the name of the equipment from the drop down list.

Log Level Selection	
Debug Messages	Check this box to display messages relevant to application and service debugging. Check this box to get the full debug messages. Full debug messages have complete description for debugging purposes.
Trace Messages	Checking this box allows tracing of events as they occur during execution of application/services.
Info Messages	Checking this box provides information for the running applications or services.
Exception Messages	Checking this box displays exceptions that occur for the running application or services.
Warning Messages	Checking this box gives warning messages for the running applications or services.
Error Messages	Checking this box gives system error messages concerning applications or services currently running.
Critical Messages	Checking this box gives the system critical messages that identify service malfunctions.
Message Filtering and Formatting	
Messages Formatting	These are the following options available: <LI>%%f : source filename <LI>%l : linenumber <LI>%c : classname (only if a 'this' pointer exists, e.g. not in global or static functions!) <LI>%m : the debug message <LI>%d : time and date <LI>%t : thread id <LI>%u : module name
Include Filter	Define the expression to filter the messages.
Exclude Filter	Define the expression that is used to exclude log outputs.
Logging Configuration (Choose type of output to display logs)	
Console	Check this radio button to define as the destination type for the log messages.
File	Check this radio button to activate logging to file options.
Log Files Directory	Define the Directory in which to create the log files (in text format).
Max Directory Size (MB)	Define the maximum size for the directory that holds different logs.
Max File Size	Define the max individual log file size.
Syslog	Check this radio button to activate output of different Syslog options.
Syslog Server Address	Define the IP address or the DNS name of the syslog server.
Syslog Server Port	Define the port number. (Default value: 514)
Syslog facility Number	Define the syslog facility number indicator for classifying the log messages.
Local UDP Port	Define the local UDP Port number as advertised in syslog messages.

IP Interface Number	Define this number that is used for sending syslog messages.
TOS value	Type-of-Service. Each IP Datagram has an 8-bit field called the TOS Byte, which represents the IP support for prioritization and Type-of-Service handling. See “Glossary” on page 177 for detailed explanation.
Telnet	Check this radio button to activate logging to telnet options.
Telnet Server Port	This is the TCP server port number of the telnet log server.
IP Interface Port	This is the network interface number, used if more than one IP interface is present for a device.

Figure 131: Adding new Log



Edit log

To edit a log, follow these steps:

1. Open the List of Log, as described in the “List logs” on page 164.
2. To edit an individual Log, click the Log Name in the displayed list. The Edit Log page will open.

3. To edit several logs at the same time, for instance, to define the expression to filter the messages, select the logs by checking the corresponding boxes in the left-most column.

Note: You can select all the video inputs in one click simply by checking the box in the header section.

4. Click edit, the Group Edit Logs page will open.
5. Edit the parameters as needed and click OK to confirm the changes.

For information about parameters, see “Add log” on page 164.

Delete log

To delete a log, follow these steps:

1. Open the List of Logs as described in the section “List logs” on page 164.
2. Select the log by checking the corresponding box.
3. Click the Delete icon. The log will be deleted from the list.

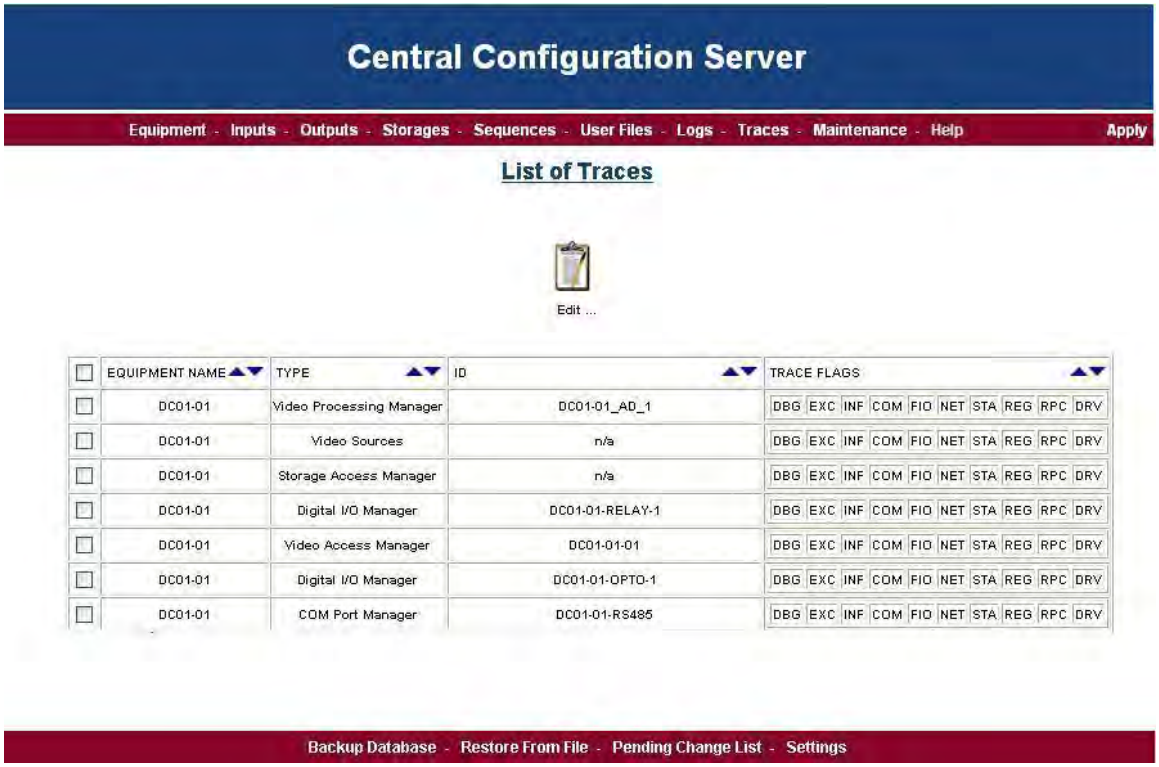
Traces

List traces

On this page all traces can be listed and trace flags configured.

Note: Traces are used for debugging and should only be used by UTC Fire & Security support team.

Figure 132: List of traces


Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
List of Traces
Edit ...
EQUIPMENT NAME
TYPE
ID
TRACE FLAGS
DC01-01 Video Processing Manager DC01-01_AD_1 DBG EXC INF COM FIO NET STA REG RPC DRV
DC01-01 Video Sources n/a DBG EXC INF COM FIO NET STA REG RPC DRV
DC01-01 Storage Access Manager n/a DBG EXC INF COM FIO NET STA REG RPC DRV
DC01-01 Digital I/O Manager DC01-01-RELAY-1 DBG EXC INF COM FIO NET STA REG RPC DRV
DC01-01 Video Access Manager DC01-01-01 DBG EXC INF COM FIO NET STA REG RPC DRV
DC01-01 Digital I/O Manager DC01-01-OPTO-1 DBG EXC INF COM FIO NET STA REG RPC DRV
DC01-01 COM Port Manager DC01-01-RS485 DBG EXC INF COM FIO NET STA REG RPC DRV
Backup Database - Restore From File - Pending Change List - Settings

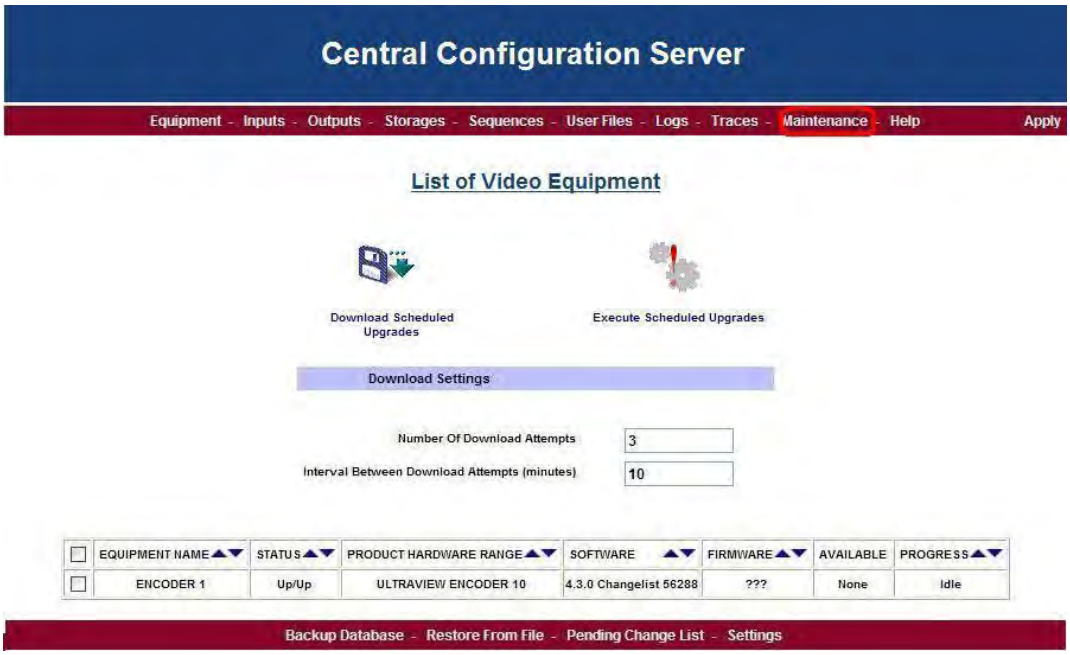
Maintenance configuration

This page displays an overview of installed software/driver packages for specific video equipment configured in UltraView CCS. If upgrade packages have been uploaded in the system upgrades files section, the UltraView CCS automatically extracts the version number of each package and adds it to the list.

The UltraView CCS automatically proposes the correct package for specific video equipment.

Update progress icon indicates when the device list will be updated and displayed.

Figure 133: The maintenance page – list of equipment



On this page, the following information is displayed:

Equipment name	List of all the video equipment.
Status (Up/Up, Up/Down, Down/Down, Down/Up)	
For Example:	First status up if security services are running (port 4001 reachable).
	Second status up if the remote upgrade service is running (port 9000 per default).
Product Hardware Range	Shows the list of hardware used.
Software	Shows software version number installed, or „???" if the Video Security Services are not running (The UltraView CCS dynamically queries each equipment when the page loads).

Firmware	Shows driver version number installed, or „???" if the Video Security Services are not running (The UltraView CCS dynamically queries each equipment when the page loads). Other values include None (meaning no driver on the chassis), “Incoherent” (discrepancies in driver versions).
Available	List box with possible software upgrades/downgrades (they include the corresponding drivers).
Progress	Either “idle” if no upgrade is running, or “upgrading” if the system is upgrading.

Upgrading options

All-in-one option: Clicking the Execute Scheduled Upgrades icon will launch the upgrades for all selected software packages and for all selected hosts (it will first ask for a confirmation).

Split option: Clicking the Download Scheduled Upgrades icon will transfer the upgrade package without executing the procedure.

When dealing with a significant number of equipment, jamming can occur when making an upgrade. Therefore, the upgrade procedure can be split in two distinct parts:

1. Click the Download Scheduled Upgrades icon to transfer the Upgrade Package without executing the procedure.
2. Then launch the Upgrade Procedure, by clicking the Execute Scheduled Upgrades icon.

In case of download failure, this process will resume according to the parameters specified:

Number of downloads attempts	The number of attempts in case of download failure.
Interval between Downloads attempts (minutes)	The time interval between two download attempts.

Note: An upgrade procedure includes an automatic reboot of the video equipment, so the status column will indicate that the video equipment is not reachable for the duration of the reboot.

Note: Do not shut down or switch off the video equipment during the upgrade or the reboot procedure, as this may be detrimental to the video codec boards.

Administrative functions

List and backup the configuration database

This function allows you to save all configuration data for a video network site into a file. This function also provides an easy way to get an overview of the configuration data for a site.

To list and backup configuration database, follow these steps.

1. Open the start page of the Central Configuration Server (for example, click the UltraView logo to return to the start page).
2. Click Backup Database in the lower menu bar. All configuration data of the site will be presented in tables.
3. To save the displayed database to a file, select the Save As option in the Internet browser's File menu.
4. Enter a file name for the configuration database.

Note: It is important to save as HTML, otherwise, it will not be possible to restore the configuration.

5. The configuration database is now saved in the specified HTML file and can be restored with the Restore from File function. See “Restore configuration database” below.

Note: The saved file can also be opened and edited with an HTML editor. However, the user must be most careful when editing the configuration data in this way, since the values of the configuration items will not be checked.

Restore configuration database

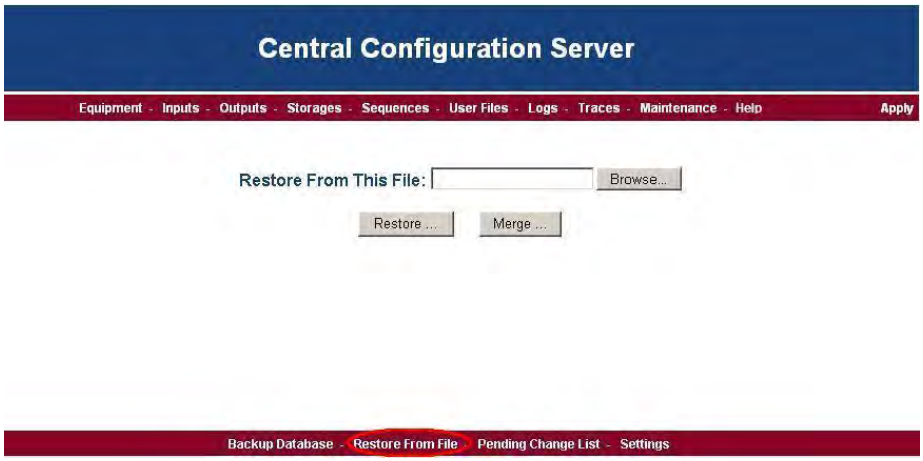
This function allows you to restore old configuration data. The restore configuration had to be previously saved in the HTML file format, using the Backup Database function. See “List and backup the configuration database” above.

To restore configuration database, follow these steps.

1. Open the start Central Configuration Server page (for example, click the UltraView logo to return to the start page).
2. Click Restore from File in the lower red menu bar.
3. Enter the file name of the HTML format file and the path where the old configuration is stored or click Browse to search for the file in directory structure.
4. Click Restore to restore the saved configuration. The restored configuration will replace the current one.
5. Clicking Merge instead of Restore will merge the configuration data in the loaded file to the current configuration database. No data will be overwritten.

If there is configuration data in the file to be merged that conflicts the current configuration, the file will not be merged and there will be an error message.

Figure 134: Restoring from a file


Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
Restore From This File:
Browse...
Restore ...
Merge ...
Backup Database - Restore From File - Pending Change List - Settings

Pending change list (for debugging)

Note: This function is only to be used for debugging.

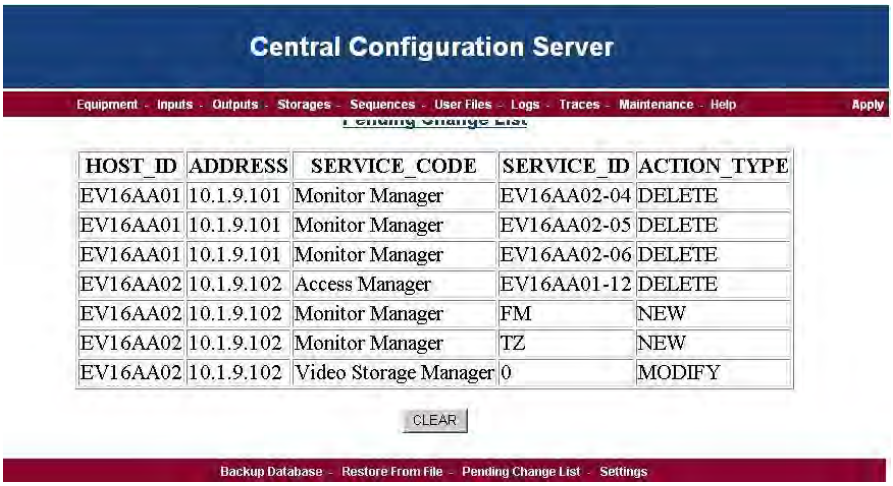
If clicking Apply results in an error message, you can use this function to analyze the attempted configuration database changes. In fact, this function displays a log of the pending changes, that is, the changes that have been made to the configuration since Apply was clicked. If necessary, the pending changes can be deleted.

To delete pending changes, follow these steps:

1. Open the start page of the Central Configuration Server (for example, click the UltraView logo to return to the start page).
2. Click Pending Change List in the lower red menu bar.
3. To delete the pending changes, click the Clear button at the bottom of the page.

Note: The Video Security Service software needs to be restarted manually for the changes to take effect.

Figure 135: Pending change list


Central Configuration Server
Equipment - Inputs - Outputs - Storages - Sequences - User Files - Logs - Traces - Maintenance - Help
Apply
HOST_ID ADDRESS SERVICE_CODE SERVICE_ID ACTION_TYPE
EV16AA01 10.1.9.101 Monitor Manager EV16AA02-04 DELETE
EV16AA01 10.1.9.101 Monitor Manager EV16AA02-05 DELETE
EV16AA01 10.1.9.101 Monitor Manager EV16AA02-06 DELETE
EV16AA02 10.1.9.102 Access Manager EV16AA01-12 DELETE
EV16AA02 10.1.9.102 Monitor Manager FM NEW
EV16AA02 10.1.9.102 Monitor Manager TZ NEW
EV16AA02 10.1.9.102 Video Storage Manager 0 MODIFY
CLEAR
Backup Database - Restore From File - Pending Change List - Settings

Set video standard

On this page, you can set the default input and output video standard to be used by the new video equipment. The video standard can be edited afterwards on a per channel basis, if required.

1. Open the start page of the Central Configuration Server (for example, click the UltraView logo to return to the start page).
2. Click Settings on the lower menu bar.
3. Define the Input and Output Video Standards field. The video standards that can be selected are:

Input Video Standards	Output Video Standards
PAL (BGHI)	PAL (BGHI)
NTSC (M)	NTSC (M)

Figure 136: Edit video settings

4. Define the Default Custom Fonts (OSD). Define for all OSDs by default, except if overridden on the Outputs page.
5. Define the Default Time Zone.
6. Define the Date Format. How to display dates in the OSD, available fields are:
   - %m for month
   - %d for day
   - %y for year
7. Define the Time Format. How to display time in the OSD, available fields are:
   - %h for hour
   - %m for minute
   - %s for second
8. Choose whether you need to use the NTP Server from the UltraView CCS or another NTP Server. In the latter, you need to specify the location of the server. Both DNS name and IP address can be used. Multiples NTP server"s entries must be separated by a space character.

Hardware compatibility list

The UltraView CCS 4.5 supports the following equipment:

UltraView Encoder 10
UltraView Decoder 10
UltraView Recorder 40
UltraView Recorder 40D
Discovery 2405
Evolution HD 3005
UltraView Recorder 60
UltraView NVR 80
UltraView NVR 82
TruVision NVR 40
UltraView Fixed Dome Wide Dynamic Range
UltraView Fixed Dome Standard
UltraView Brick Dome Wide Dynamic Range
UltraView Brick Dome Standard
Digital Acoustics IP Intercom Series

VOS ports

UltraView CCS 4.5 TCP control ports descriptions:

TCP Control Port	Description
554	RTSP Manager
3000	Usually used as tunnel port for TCP tunneling
3999	Default port for logs if configured to be exposed via telnet
4000	Video Service with functionalities for configuration
4001	Video equipment control
4444	Events manager
4445	Remote monitor control (power supply monitoring)
5001..5500	Video input channels
5501..6000	Audio input channels
6001..60xx	Digital input control
6501..65xx	Digital output
7001..7500	Monitor control (video output channels)
7501	Dynamic audio group control
8000	Data/Control
8001..8500	PTZ camera control
8501..8599	COM ports control
9000	Remote update
10001	Video storage manager
10002	Audio storage manager
10003	Data storage manager
10004	Video plug-in storage manager
11001	Storage access manager
12001	Video processing manager first control port
13667	Data plug-in first control port
15001..65535	Audio/Video playback (range can be configured)

Glossary

API	Application Program Interface, a set of routines, protocols and tools for building software applications.
CIF	Common Interface Format, a video format that supports both NTSC and PAL signals. CIF specifies a data rate of 30 frames per second (fps), with each frame containing 288 lines and 352 pixels per line.
Codec	Compressor/decompressor, any technology for compressing and decompressing data.
COMP	Composite video, a technology where the video information is transmitted as a single signal over one wire.
CPCI	Compact PCI.
CPCI4-AP	UltraView CPCI4-AP video codec board with four video input/output channels.
DNS	Domain Name System, an Internet service that translates domain names into IP addresses.
FPS	Fields Per Second, a measure of how much information is used to store and display motion video. The term applies equally to film video and digital video. The more fields per second, the smoother the motion appears. The PAL format displays 50 fields per second (25 interlaced frames per second).
GOP	Group of Pictures, the GOP concept reduces the temporal redundancy across frames.
H.264	See MPEG-4 AVC
IP	Internet Protocol. IP specifies the format of packets, also called datagrams, and the addressing scheme. Most networks combine IP with a higher-level protocol called Transport Control Protocol (TCP), which establishes a virtual connection between a destination and a source.
IP Multicast (IPM)	Unlike traditional Internet traffic that requires separate connections for each source-destination pair, IP Multicasting allows many recipients to share the same source. This means that just one set of packets is transmitted for all the destinations.
M-JPEG	Motion-JPEG. JPEG Joint Photographic Experts Group is a standard for storing and compressing digital images. Motion-JPEG extends this standard by supporting videos. In motion-JPEG, each frame in the video is stored with the JPEG format.
MPEG-1	Digital video compression standard. MPEG stores only the changes from one frame to another, instead of each entire frame. The MPEG-1 standard provides a video resolution of 352-by-240 at 30 frames per second (fps).
MPEG-4 ASP (MPEG-4 part 2)	Video compression technology developed by MPEG belonging to the MPEG-4 ISO/IEC standard (ISO/IEC 14496-2). It is a discrete cosine transform compression standard, similar to previous standards, such as MPEG-1 and MPEG-2. The following technical features are supported: support for "MPEG"-style quantization, support for interlaced video, support for B pictures (a.k.a. B Frames), quarter Pixel motion compensation (Qpel), and global motion compensation (GMC).

MPEG-4 AVC (H.264, MPEG-4 part 10)	It is the latest block-oriented motion-compensation-based codec standard developed by the ITU-T Video Coding Experts Group (VCEG) together with the ISO/IEC Moving Picture Experts Group (MPEG). It contains a number of new features that allow it to compress video much more effectively than older standards and to provide more flexibility for application to a wide variety of network environments.
MTU	Maximum Transmission Unit, the largest physical packet size, measured in bytes that a network can transmit.
NTSC	National Television Standards Committee, US standard for encoding color on monochrome-compatible video signal.
OSD	On-Screen Display
PAL	Phase Alternate Line, European standard for encoding color on monochrome-compatible video signal.
PCI	Peripheral Component Interconnect, Intel specification for a high speed PC bus.
QCIF	Quarter Common Intermediate Format, a video format that specifies data rates of 30 frames per second (fps), with each frame containing 144 lines and 176 pixels per line. This is one-fourth the resolution of Full CIF.
QoS	Quality of Service, a networking term that specifies a guaranteed throughput level, jitter and delay, all of which are essential to video transmission.
RS232	Recommended Standard. Standard interfaces approved by the Electronic Industries Association (EIA) for connecting serial devices. Almost all modems conform to the RS-232 standard. RS-422 supports multipoint connections. RS-485 is similar to RS-422 but can support more nodes per line because it uses lower-impedance drivers and receivers.
RS422	See RS232.
S-VIDEO	Super-Video, a technology for transmitting video signals over a cable by dividing the video information into two separate signals: one for color (chrominance), and the other for brightness (luminance). This produces sharper images than composite video, where the video information is transmitted as a single signal over one wire. S-VIDEO is the same as Y/C video.
TCP	TCP is one of the main protocols in TCP/IP networks. Whereas the IP protocol deals only with packets, TCP enables two hosts to establish a connection and exchange streams of data. TCP guarantees delivery of data and guarantees that packets will be delivered in the same order in which they were sent.

TOS	IP Precedence/ToS changes the IP Precedence bits in the Type of Service (ToS) field in the IP header. Based upon that change, the associated traffic receives priority within the IP network. To enable this service, all IP routers and switches in the network must be configured to handle traffic with the IP Precedence bits set. The IP Precedence configuration can be used with other QoS mechanisms, such as Policy-Based Routing and Traffic Policing. Examples include Cisco's Policy Routing and Committed Access Rate. With these other services, the routers and switches can police the traffic entering the network, assign priority, and ensure the optimal path through the IP network. These features are relatively easy to enable, and ensure optimal delivery times for FC over IP traffic. The value is coded on an 8bits field: 7 6 5 4 3 2 1 0 ECN field R T D Precedence Bits 0..2 : Precedence -> value from 0 to 2 and are used to indicate the importance of a datagram. Default is 0 (higher is better) Bits 3 4 5 represent the following: D: requests low delay T: requests high throughput R: requests high reliability (Default value: 0)
TTL	Internet's unbroken growth and recent fundamental topology changes within the international backbone occasionally cause some connectivity problems. In most cases, the problems could be identified as hosts sending out IP packets with too small initial TTL (Time To Live) values. In worse case, the maximum hop counts of up to 40 can be observed. TCP and UDP initial TTL values should be set to a "safe" value of at least 60. (Default value: 32)
UDP	User Datagram Protocol, a protocol that provides user access to IP-like services. UDP packets are connection-less datagrams that may be discarded before reaching their destinations.

Contacting technical support

For help installing, operating, maintaining, and troubleshooting this product, refer to this document and any other documentation provided. If you still have questions, contact us during business hours (Monday through Friday, excluding holidays).

Note: Please be ready at the unit before calling.

Table 1: Technical support

Americas	**Europe, Middle East, and Africa**
T: (855) 536-3573, option 2, then 4	T: + 48 (58) 326 2240
E: techsupport@interlogix.com	F: + 48 (58) 326 2241
	E: bpsupport.emea@fs.utc.com
	W: www.utcfssecurityproducts.eu
Australia and New Zealand	**Greater China**
T: +613 92391200	E: ts.cn@fs.utc.com
E: support@interlogix.zendesk.com	
South East Asia	
Please contact your local sales manager.	